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Reno  
Nevada



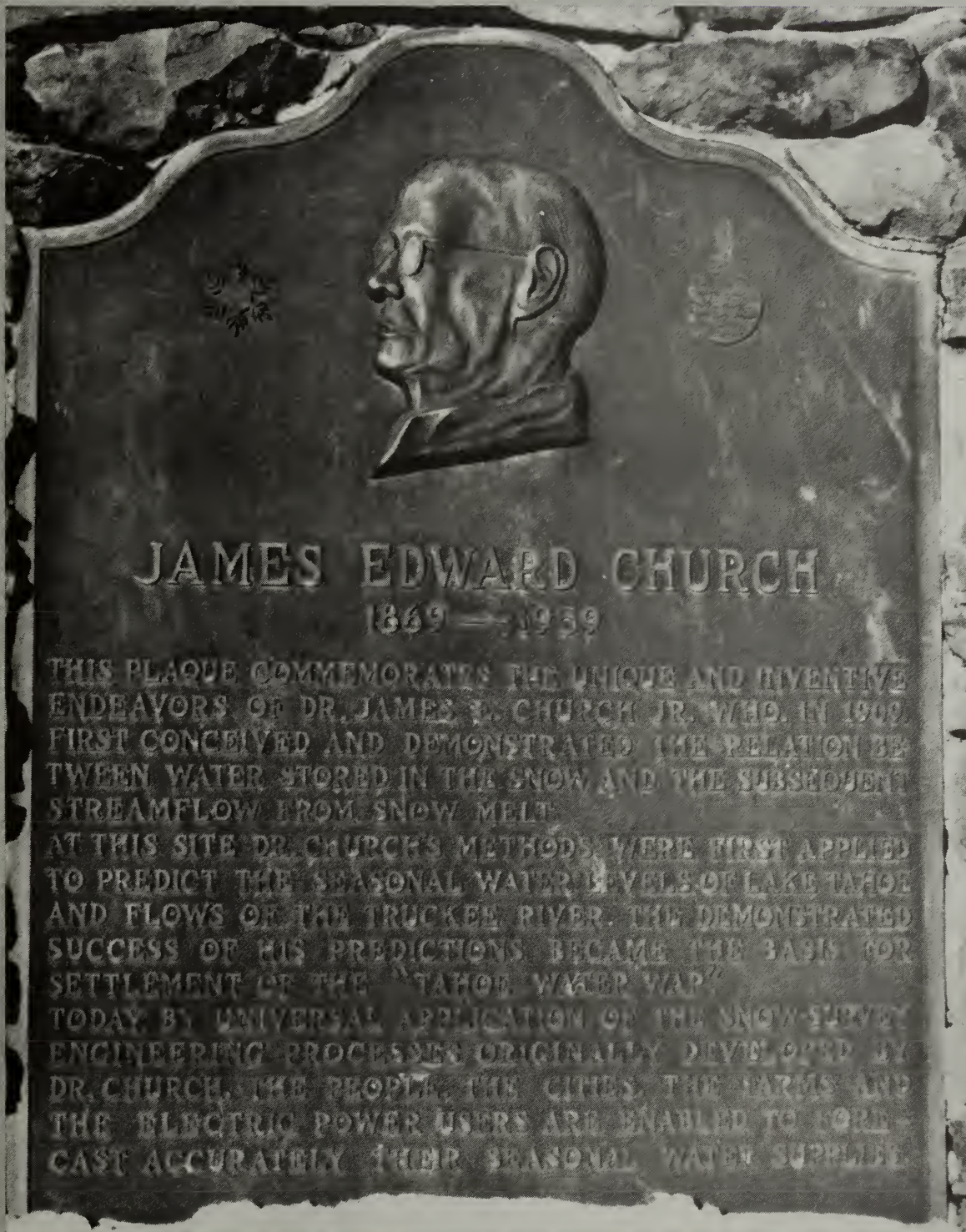
# Nevada Water Supply Outlook

January 1, 1989

AG. STATION BRANCH

9 '89

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# Foreword

## How Forecasts Are Made

Most of the annual streamflow in the Western United States originates as snowfall that has accumulated high in the mountains during winter and early spring. As the snowpack accumulates, hydrologists estimate the runoff that will occur when it melts. Predictions are based on careful measurements of snow water equivalent at selected index points. Precipitation, temperature, soil moisture and antecedent streamflow data are combined with snowpack data to prepare runoff forecasts. Streamflow forecasts are coordinated by Soil Conservation Service and National Weather Service hydrologists. This report presents a comprehensive picture of water supply outlook conditions for areas dependent upon surface runoff. It includes selected streamflow forecasts, summarized snowpack and precipitation data, reservoir storage data, and narratives describing current conditions.

Snowpack data are obtained by using a combination of manual and automated measurement methods. Manual readings of snow depth and water equivalent are taken at locations called snow courses on a monthly or semi-monthly schedule during the winter. In addition, snow water equivalent, precipitation and temperature are monitored on a daily basis and transmitted via radio telemetry to central data collection facilities. Both monthly and daily data are used to project snowmelt runoff.

An error is associated with each forecast, and this error decreases as the season progresses and more data becomes available. To express the range of error that can be expected, "most probable" forecasts are issued along with a range representing a "reasonable minimum" and a "reasonable maximum". Actual streamflow can be expected to fall within this range in eight out of ten years. Additionally two specific scenarios are provided based on the assumption that subsequent precipitation will be "wet", above average, or "dry", below average.

## For More Information

Copies of Monthly Water Supply Outlook Reports and other reports may be obtained from the states listed below. An annual snow survey data summary is published by the Soil Conservation Service for each of the western states. Historical snow survey data may be obtained at those same offices.

STATE	ADDRESS
Alaska	201 East 9th Ave., Suite 300, Anchorage, AK 99501-3687
Arizona	201 East Indianola Ave., Suite 200, Phoenix, AZ 85012
Colorado	2490 West 26th Ave., Building A, 3rd floor, Denver, CO 80211
Idaho	3244 Elder Street, Room 124, Boise, ID 83705
Montana	10 East Babcock, Room 443, Federal Building, Bozeman, MT 59715
Nevada	1201 Terminal Way, Room 219, Reno, NV 89502
New Mexico	517 Gold Ave. S.W., Room 3301, Albuquerque, NM 87102-3157
Oregon	1220 Southwest 3rd Ave., Room 1640, Portland, OR 97204
Utah	4402 Federal Building, 125 South State Street, Salt Lake City, UT 84147
Washington	W. 920 Riverside, Room 360, Spokane, WA 99201-1080
Wyoming	Federal Building, 100 "B" Street, Room 3124, Casper, WY 82601

In addition to state reports, a Water Supply Outlook for the Western United States is published by the Soil Conservation Service and National Weather Service monthly, January through May. Reports may be obtained from the Soil Conservation Service, West National Technical Center, 511 Northwest Broadway, Room 248, Portland, OR 97209-3489.

Water supply reports published by other agencies:

California — Snow Survey Branch, California Department of Water Resources, P.O. Box 388, Sacramento, CA 95802; British Columbia — The Ministry of Environment, Water Investigations Branch, Parliament Buildings, Victoria, British Columbia, V8V 1X5; Yukon Territory — Department of Indian and Northern Affairs, Northern Operations Branch, 200 Range Road, Whitehorse, Yukon Territory, Y1A3V1; Alberta, Environment Technical Services Division, 9820 106th St., Edmonton, Alberta T5K 2J6.

# Nevada Water Supply Outlook

and

## Federal - State - Private Cooperative Snow Surveys

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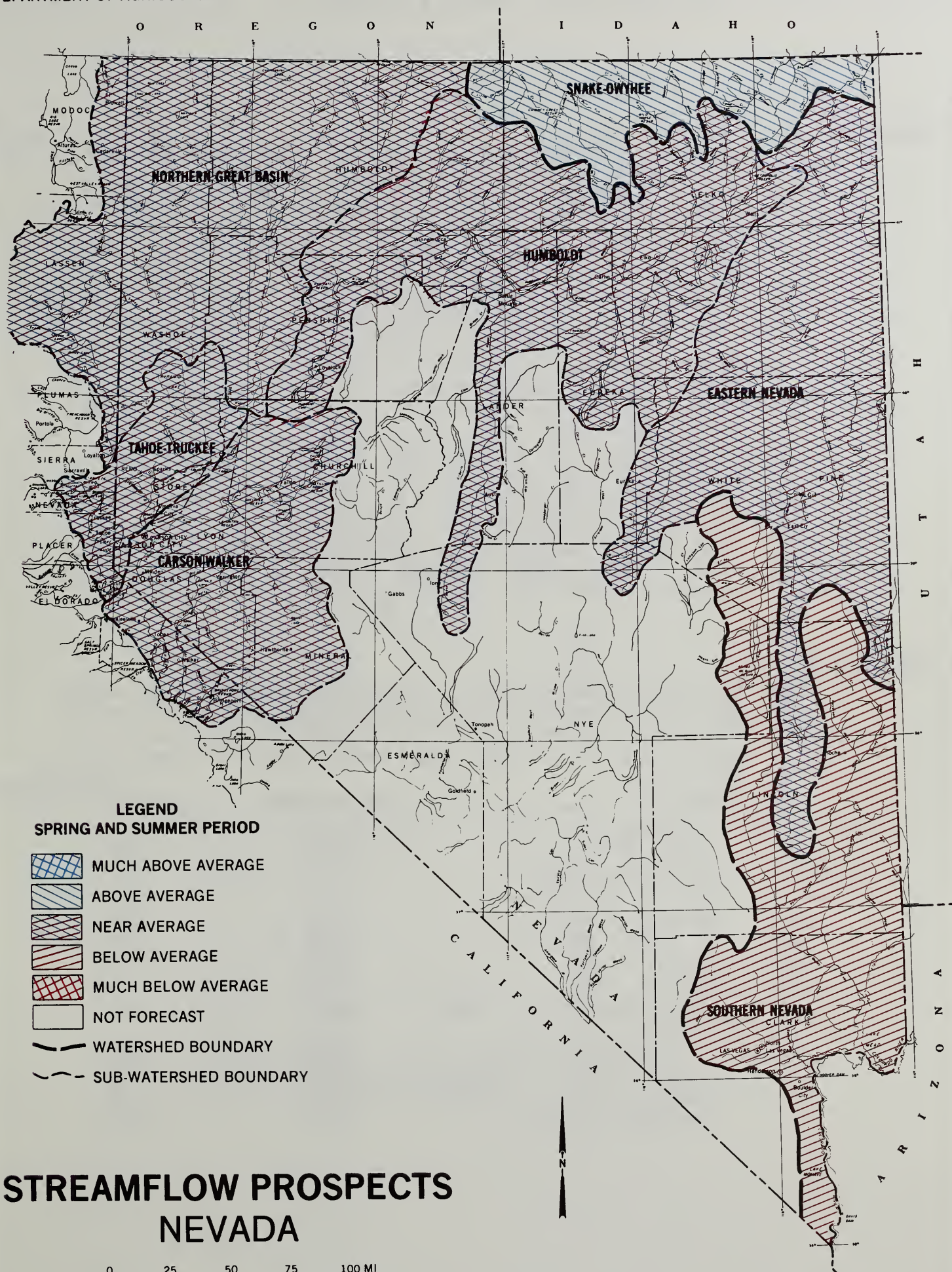
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## GENERAL OUTLOOK

### SUMMARY

SNOWPACK CONDITIONS FOR MOST OF THE STATE OF NEVADA LOOK ENCOURAGING AS WE PROGRESS THROUGH THE WATER YEAR. SNOW WATER CONTENTS RANGE FROM NEAR AVERAGE IN THE EASTERN PORTION OF THE STATE TO WELL ABOVE AVERAGE OVER NORTHERN NEVADA. PRECIPITATION TOTALS GOT OFF TO AN EXTREMELY SLOW START IN OCTOBER WITH ALMOST NO PRECIPITATION STATEWIDE. HOWEVER, NOVEMBER YIELDED WELL ABOVE AVERAGE PRECIPITATION, EXCEPT IN THE LOWER COLORADO RIVER BASIN WHICH REMAINED WELL BELOW NORMAL. ALTHOUGH DECEMBER PRECIPITATION WAS BELOW TO WELL BELOW NORMAL FOR MOST AREAS IN NEVADA, TOTAL PRECIPITATION SINCE OCTOBER 1, 1988 REMAINED NEAR NORMAL FOR MOST OF THE STATE. RESERVOIR STORAGE REMAINS WELL BELOW AVERAGE, EXCEPT FOR THE LOWER COLORADO RIVER BASIN WHICH IS ABOVE AVERAGE. THE SEVEN MAJOR RESERVOIRS SUPPLYING WATER FOR NORTHERN NEVADA WATER USERS WERE ONLY 6% OF AVERAGE ON THE LAST DAY OF DECEMBER. STREAMFLOW FORECASTS PREDICT NEAR TO WELL ABOVE AVERAGE FLOWS IN ALL BASINS IN NEVADA EXCEPT THE LOWER COLORADO RIVER BASIN.

### SNOWPACK

Snowpack conditions on January 1 ranged from above average to well above average throughout the state. This year's snow water equivalent figures are significantly higher than those reported last year at this time.

BASIN	% OF AVERAGE	% OF LAST YEAR
LAKE TAHOE.....	120%	198%
TRUCKEE RIVER.....	117%	152%
CARSON RIVER.....	115%	148%
WALKER RIVER.....	119%	183%
N. GREAT BASIN.....	162%	238%
SNAKE RIVER.....	146%	161%
OWYHEE RIVER.....	168%	213%
UPPER HUMBOLDT RIVER.....	182%	180%
CLOVER VALLEY & FRANKLIN RIVER.....	90%	150%
LOWER HUMBOLDT RIVER.....	227%	215%
HUMBOLDT RIVER (TOTAL)....	210%	202%
EASTERN NEVADA.....	103%	112%



## PRECIPITATION

Precipitation during the month of December was below normal to well below normal for most of the state, except in the Walker River and Lower Humboldt River basins which were near normal. Total precipitation since October 1 ranged from well below normal in the Lower Colorado River Basin to well above average in the Lower Humboldt River Basin. Most of the state reported near normal precipitation for the water year.

BASIN	DECEMBER % OF AVERAGE	YEAR TO DATE % OF AVERAGE
LAKE TAHOE.....	85%	98%
TRUCKEE RIVER.....	67%	89%
CARSON RIVER.....	87%	89%
WALKER RIVER.....	108%	111%
N. GREAT BASIN.....	53%	95%
UPPER HUMBOLDT RIVER.....	70%	91%
LOWER HUMBOLDT RIVER.....	100%	136%
CLOVER VALLEY & FRANKLIN RIVER.....	68%	111%
SNAKER RIVER.....	69%	109%
OWYHEE RIVER.....	57%	112%
EASTERN NEVADA.....	87%	88%
LOWER COLORADO RIVER.....	43%	43%

## RESERVOIRS

Reservoir storage, although improving, remains extremely low except in southern Nevada where storage is above average.

BASIN	% CAPACITY	% OF AVERAGE
LAKE TAHOE.....	-3%	-6%
TRUCKEE RIVER.....	26%	53%
CARSON RIVER.....	9%	16%
WALKER RIVER.....	8%	18%
LOWER HUMBOLDT RIVER.....	4%	8%
OWYHEE RIVER.....	16%	45%
LOWER COLORADO RIVER.....	87%	119%
SEVEN MAJOR RESERVOIRS....	3%	6%

## STREAMFLOW

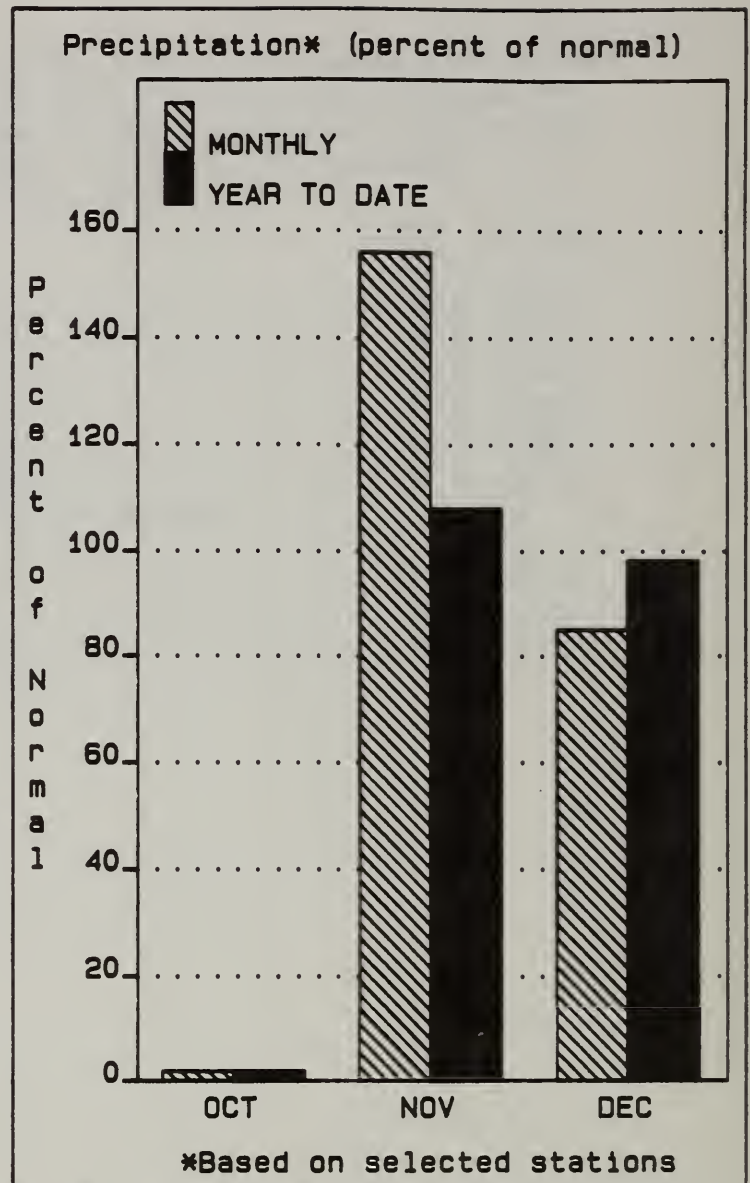
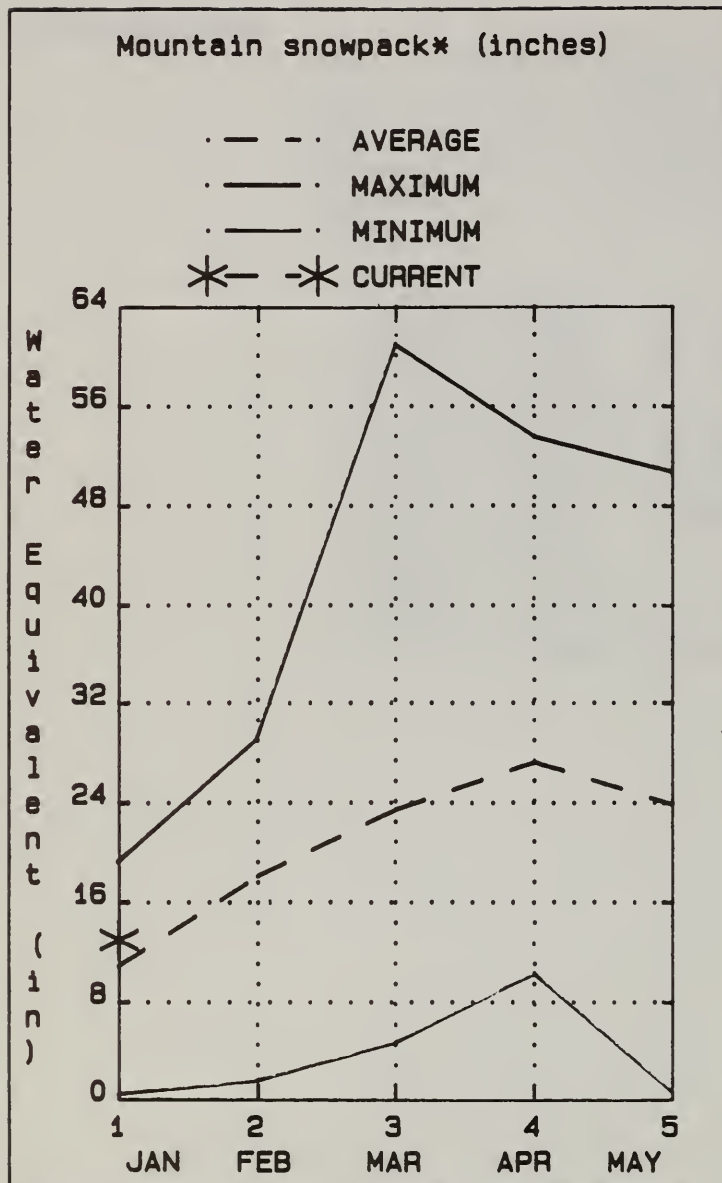
Most of the streams in the state are expected to be near average. Some streams in the Lower Humboldt Basin should produce well above average streamflows. Streamflows in the Lower Colorado River Basin are expected to be well below average.

BASIN	% OF AVERAGE
-----	-----
TRUCKEE RIVER.....	92%-100%
CARSON RIVER.....	90%-101%
WALKER RIVER.....	91%- 94%
N. GREAT BASIN.....	92%-115%
UPPER HUMBOLDT RIVER.....	95%-115%
LOWER HUMBOLDT RIVER.....	95%-137%
CLOVER VALLEY & FRANKLIN RIVER.....	101%
SNAKE RIVER.....	115%
OWYHEE RIVER.....	116%-121%
EASTERN NEVADA.....	95%-125%
LOWER COLORADO RIVER.....	60%- 87%





## LAKE TAHOE BASIN



### LAKE TAHOE BASIN

Snowpack conditions in the Lake Tahoe Basin are above average for this time. The basin currently has 120% of the January 1 average and 198% of the water content present last year. December precipitation for the Lake Tahoe Basin was 85% of average and 91% of last year. Precipitation since October 1, 1988 is 98% of average and 148% of last year. The elevation at Lake Tahoe on the last day of December was 6222.78 or -6% of average. At that time, it would take about 26,400 acre feet to bring the lake level up to the natural rim.



## LAKE TAHOE BASIN

## STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVG.)	WET SUBS. (1000AF)	DRY SUBS. (1000AF)	REAS. MAX. (1000AF)	REAS. MIN. (1000AF)	25 YR. AVG. (1000AF)
LAKE TAHOE RISE (assume gates closed) APR-HIG		1.1	80	1.3	0.6	2.3	0.3	1.5

RESERVOIR STORAGE (1000AF)					WATERSHED SNOWPACK ANALYSIS		
RESERVOIR	USEABLE : CAPACITY :	** USEABLE STORAGE ** THIS YEAR	LAST YEAR	AVG.	WATERSHED	NO. COURSES AVG'D	THIS YEAR AS % OF LAST YR. AVERAGE
LAKE TAHOE	744.6	-26.7	226.0	375.8	LAKE TAHOE RISE	13	206 121

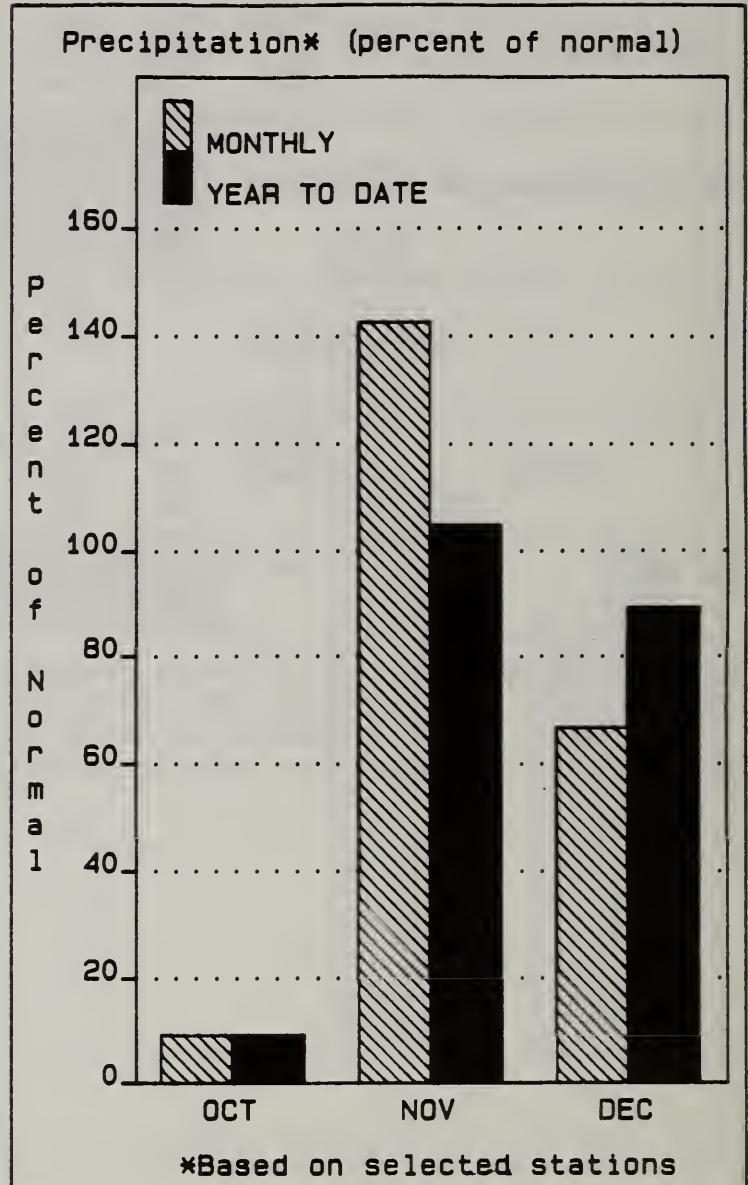
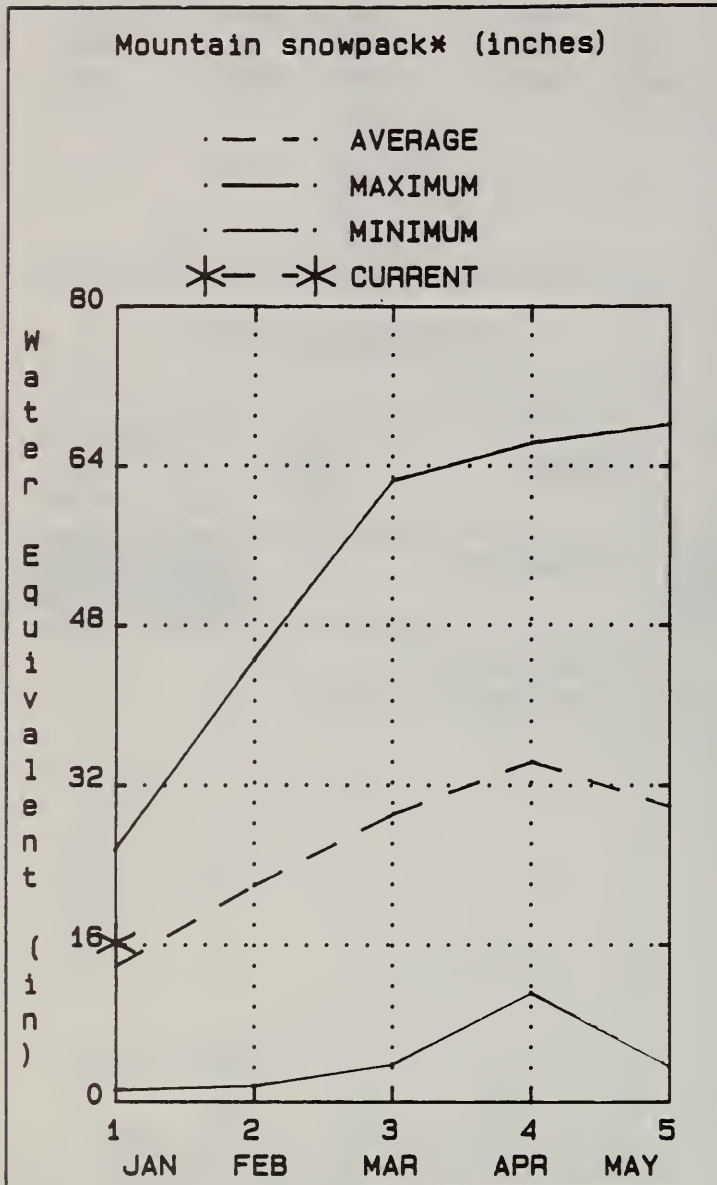
WET SUBS. and DRY SUBS. represent 130 and 70 percent subsequent precipitation events respectively.

REAS. MAX. and REAS. MIN. forecasts are for 10% and 90% exceedance levels with the exception of (1) below.

(1) - REAS. MAX. and REAS. MIN. forecasts are for 5% and 95% exceedance levels.

(2) - Corrected for upstream diversions or changes in reservoir storage.

## TRUCKEE RIVER BASIN



### TRUCKEE RIVER BASIN

Snowpack conditions in the Truckee River Basin are above average for this time. The basin currently has 117% of the January 1 average and 151% of the water content present last year. December precipitation for the Truckee River Basin was 67% of average and 81% of last year. Precipitation since October 1, 1988 is 89% of average and 163% of last year. Reservoir storage on the last day of December was 53% of average. Total storage for Boca, Prosser and Stampede reservoirs was 77,350 acre feet. Streamflows in the Truckee River Basin are expected to be near normal. The Truckee River at Farad is expected to flow at 93% of normal or 265,000 acre feet during the April-July forecast period.



# TRUCKEE RIVER BASIN

## STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVG.)	WET SUBS. (1000AF)	DRY SUBS. (1000AF)	REAS. MAX. (1000AF)	REAS. MIN. (1000AF)	25 YR. AVG. (1000AF)
TRUCKEE RIVER at Farad 2	APR-JUL	265	93	345	191	500	71	285
LITTLE TRUCKEE RIVER above Boca 2	APR-JUL	85	93	112	58	162	33	92
STEAMBOAT CREEK at Steamboat 2	APR-JUL	6.5	92	8.1	4.9	11.7	2.5	7.1
GALENA CREEK nr Steamboat, Nv	APR-JUL	4.5	100	5.1	3.8	7.8	1.2	4.5
PYRAMID LAKE RISE (LOW 2/1/87)	LOW-HIG	0.5						.2

## RESERVOIR STORAGE (1000AF)

## WATERSHED SNOWPACK ANALYSIS

RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE **			WATERSHED	NO. COURSES AVG'D	THIS YEAR AS % OF LAST YR. AVERAGE	
		THIS YEAR	LAST YEAR	AVG.				
BOCA RESERVOIR	40.9	16.2	9.8	18.4	LITTLE TRUCKEE RIVER	3	172	127
PROSSER RESERVOIR	28.6	0.7	9.7	8.5	SAGEHEN CREEK	5	156	123
STAMPEDE RESERVOIR	226.5	60.5	86.3	119.8	GALENA CREEK	2	200	118
					STEAMBOAT DRAINAGE	2	200	118
					PYRAMID LAKE	26	168	119

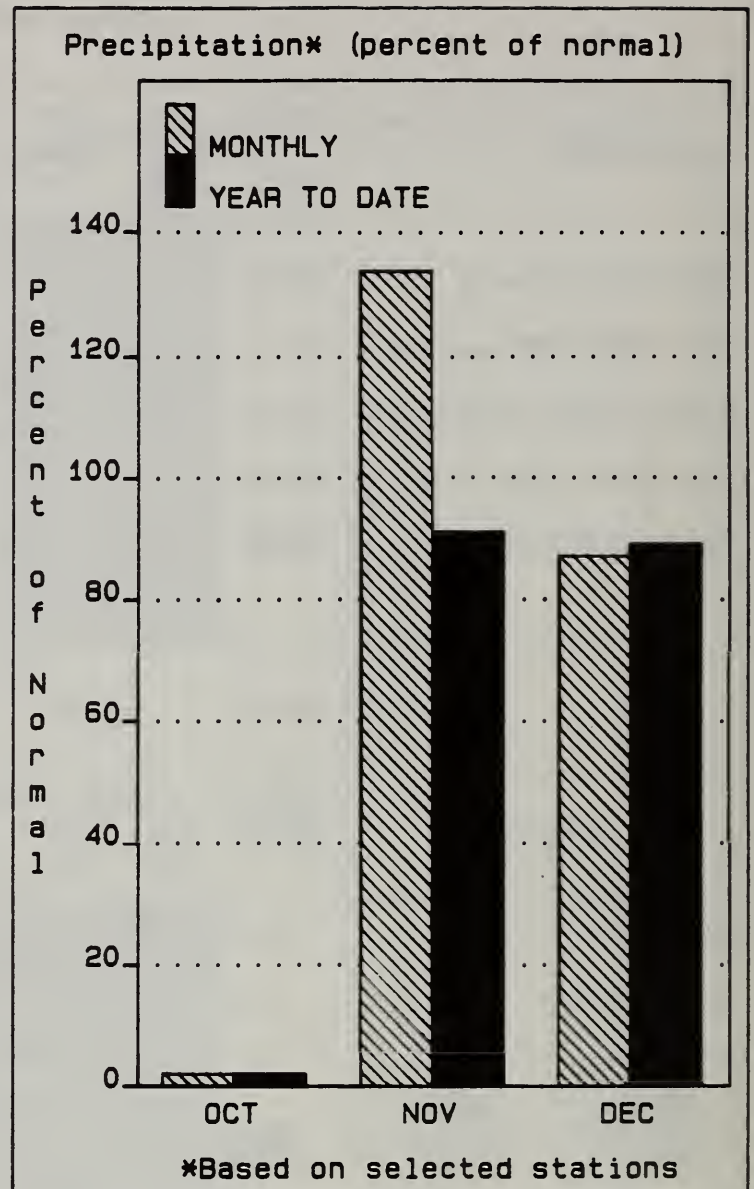
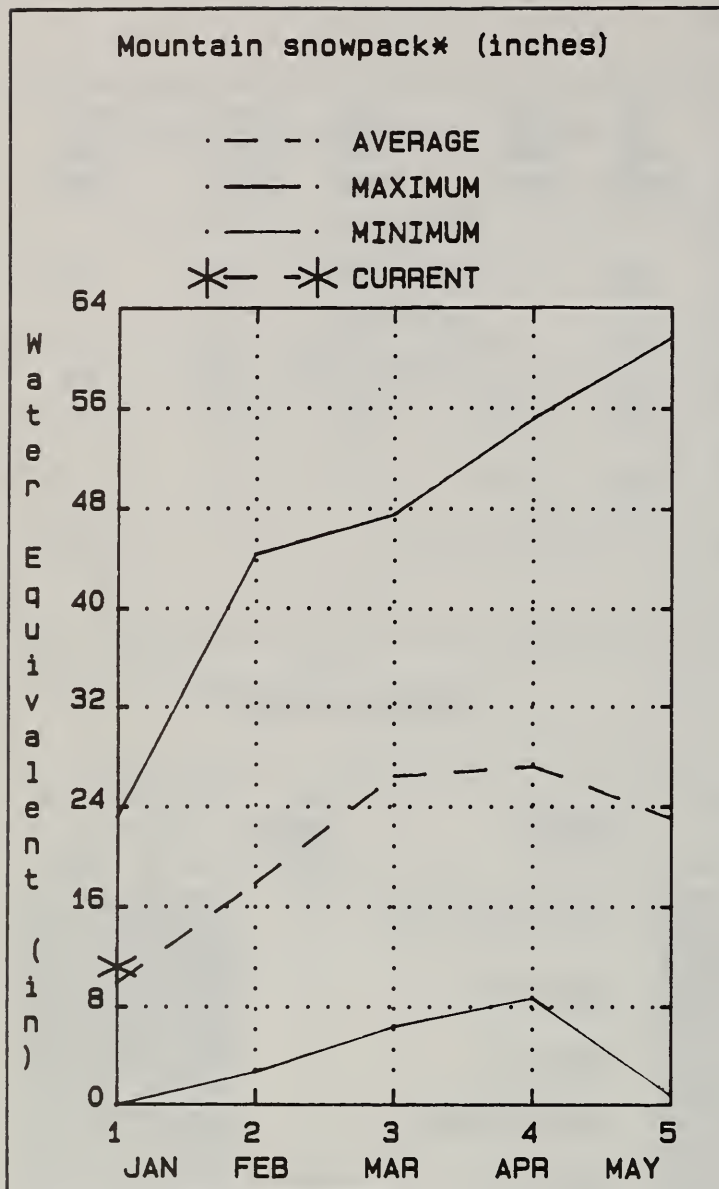
WET SUBS. and DRY SUBS. represent 130 and 70 percent subsequent precipitation events respectively.

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(1) - REAS. MAX. and REAS. MIN. forecasts are for 5% and 95% exceedance levels.

(2) - Corrected for upstream diversions or changes in reservoir storage.

## CARSON RIVER BASIN



### CARSON RIVER BASIN

Snowpack conditions in the Carson River Basin are above average for this time. The basin currently has 115% of the January 1 average and 148% of the water content present last year. December precipitation for the Carson River Basin was 87% of average and 84% of last year. Precipitation since October 1, 1988 is 89% of average and 122% of last year. Reservoir storage on the last day of December was 16% of average. Total storage for Lahontan Reservoir was 26,711 acre feet. Streamflows in the Carson River Basin are expected to be near normal. The Carson River near Carson City is expected to flow at 93% of average or 185,000 acre feet during the April-July forecast period, with a peak flow of about 3967 acre feet. Peak flow for the East Fork of the Carson River near Gardnerville is expected to be 3630 acre feet. Low flow (200 cfs) should occur on June 14, 1989.



# CARSON RIVER BASIN

## STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVG.)	WET SUBS. (1000AF)	DRY SUBS. (1000AF)	REAS. MAX. (1000AF)	REAS. MIN. (1000AF)	25 YR. AVG. (1000AF)
EF CARSON RIVER nr Gardnerville, Nv	APR-JUL	200	101	230	166	275	127	198
WF CARSON RIVER at Woodfords, Ca	APR-JUL	55	97	64	46	75	35	57
CARSON RIVER near Carson City, Nv	APR-JUL	185	93	225	151	325	46	198
CARSON RIVER near Ft. Churchill, Nv	APR-JUL	165	90	198	130	315	74	182

RESERVOIR STORAGE (1000AF)					WATERSHED SNOWPACK ANALYSIS		
RESERVOIR	USEABLE : CAPACITY :	** USEABLE STORAGE **			WATERSHED	NO. COURSES AVG'D	THIS YEAR AS % OF LAST YR. AVERAGE
		THIS YEAR	LAST YEAR	AVG.			
LAHONTAN RESERVOIR	295.1	26.7	98.2	170.4	E. CARSON RIVER	4	148 115
					W. CARSON RIVER	2	131 111
					CARSON Rv. at Carson City	2	149 122
					CARSON Rv. at Ft. Churchi	2	149 122

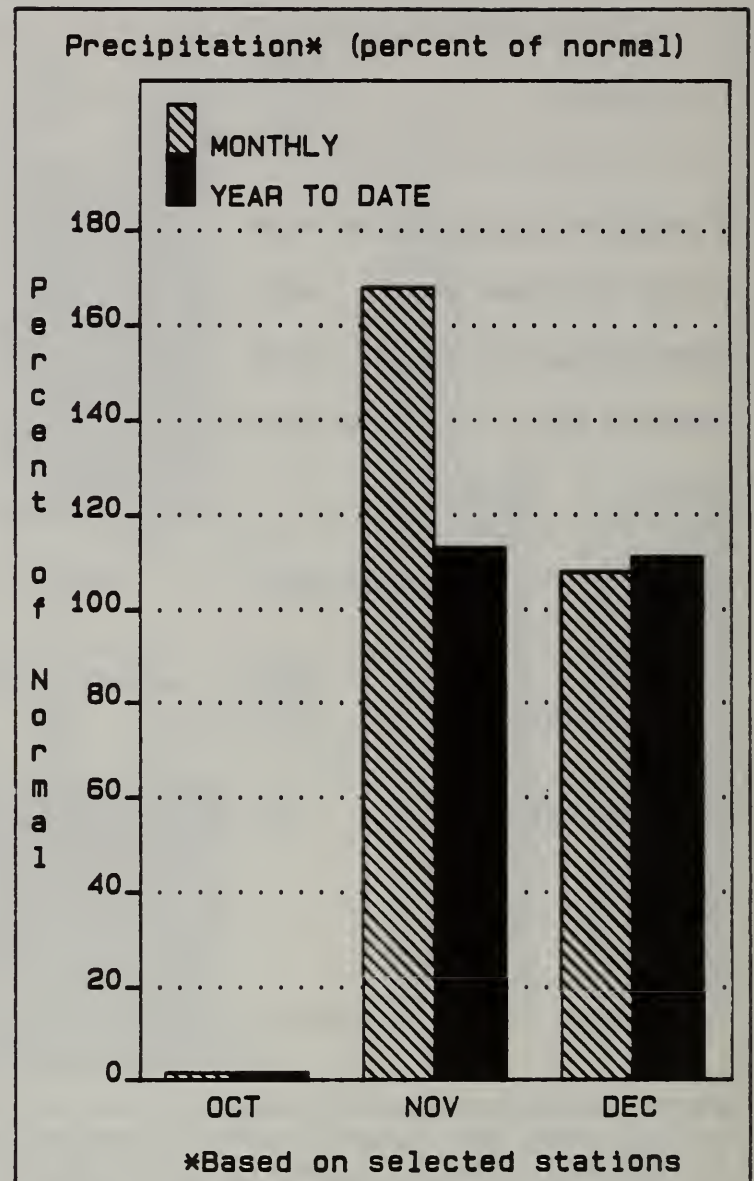
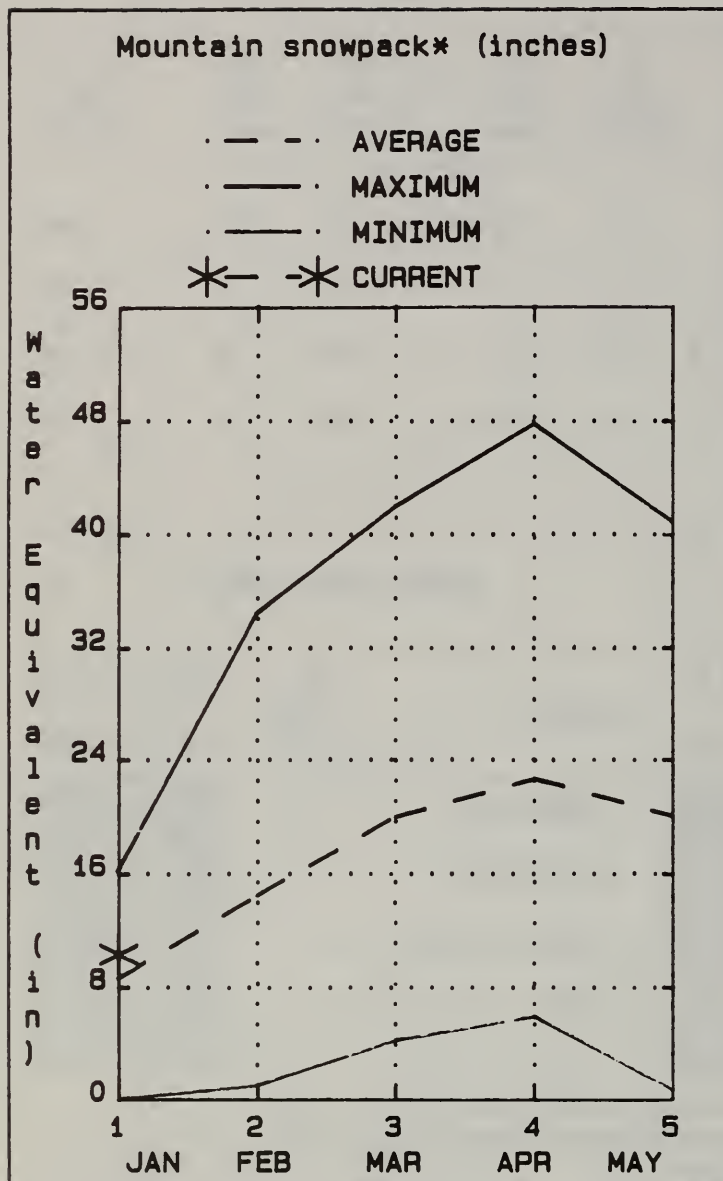
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(2) - Corrected for upstream diversions or changes in reservoir storage.

## WALKER RIVER BASIN



### WALKER RIVER BASIN

Snowpack conditions in the Walker River Basin are above average for this time. The basin currently has 119% of the January 1 average and 183% of the water content present last year. December precipitation for the Walker River Basin was 108% of average and 118% of last year. Precipitation since October 1, 1988 is 111% of average and 128% of last year. Reservoir storage on the last day of December was 18% of average. Total storage for Bridgeport and Topaz reservoirs was 8100 acre feet. Streamflows in the Walker River Basin are expected to be near normal. The West Walker River near Coleville is expected to flow at 94% of average or 145,000 acre feet during the April-July forecast period, with a peak flow of about 2975 acre feet.

# WALKER RIVER BASIN

## STREAMFLOW FORECASTS

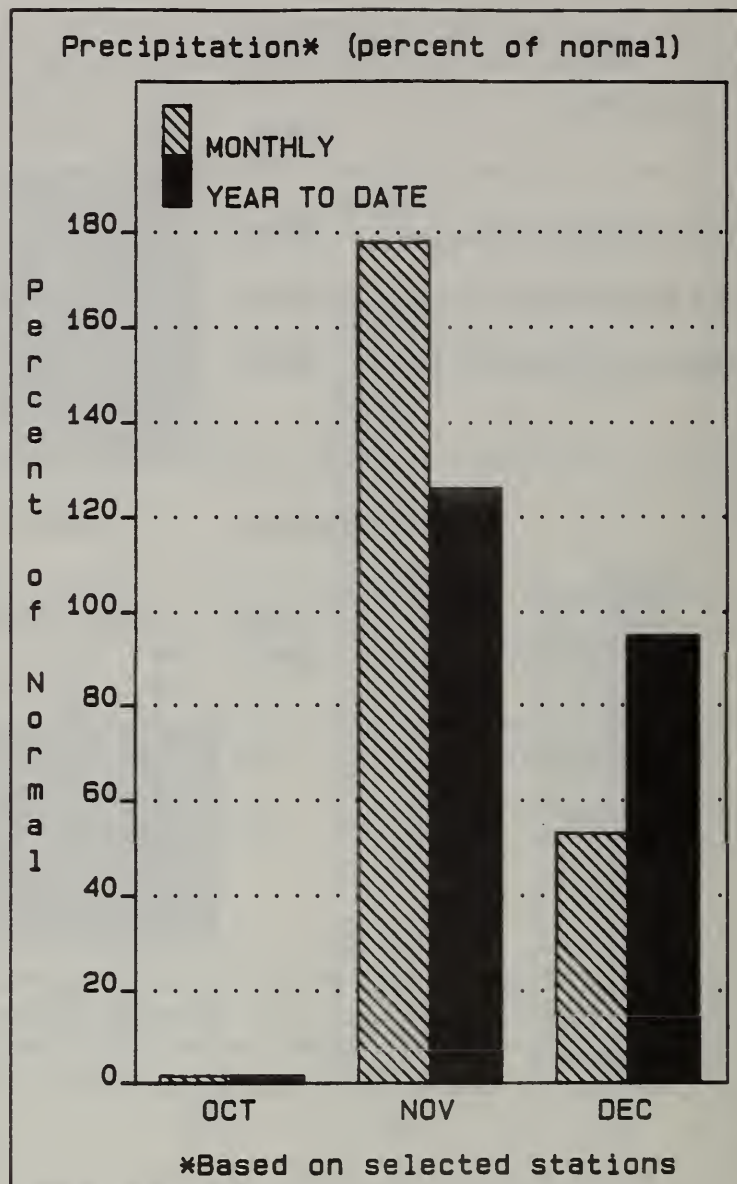
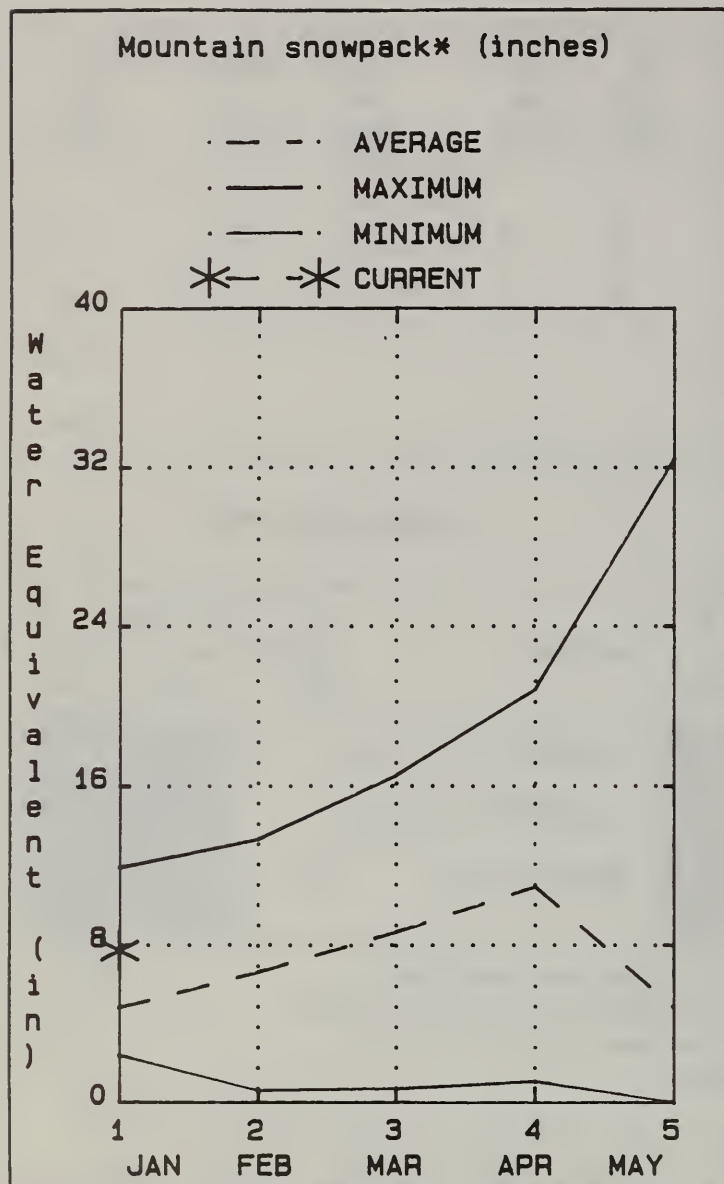
FORECAST POINT	FORECAST PERIOD	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVG.)	WET SUBS. (1000AF)	DRY SUBS. (1000AF)	REAS. MAX. (1000AF)	REAS. MIN. (1000AF)	25 YR. AVG. (1000AF)
EAST WALKER RIVER nr Bridgeport 2	APR-AUG	70	91	87	38	121	18.5	77
WEST WALKER RIVER near Coleville, Ca	APR-JUL	145	94	128	83	225	63	155
WALKER LAKE RISE (LOW 2/1/87)	LOW-HIG	0.4	0					0.0

RESERVOIR STORAGE (1000AF)					WATERSHED SNOWPACK ANALYSIS		
RESERVOIR	USEABLE : CAPACITY :	** USEABLE STORAGE **			WATERSHED	NO. COURSES AVG'D	THIS YEAR AS % OF LAST YR. AVERAGE
		THIS YEAR	LAST YEAR	AVG.			
BRIDGEPORT RESERVOIR	42.5	4.9	8.9	24.0	E. WALKER Rv. nr Bridgepo	4	191 113
TOPAZ RESERVOIR	59.4	3.2	8.7	21.5	W. WALKER Rv. nr Colevill	5	183 119
					WALKER LAKE RISE	5	183 119

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## NORTHERN GREAT BASIN



### NORTHERN GREAT BASIN

Snowpack conditions, based on SNOTEL (SNOW TELemetry) readings, in the Northern Great Basin are well above average. The basin currently has 162% of the January 1 average and 238% of the water content present last year. Snow water content in the Bidwell Creek Watershed is about 159% of average. The Quinn River Watershed is about 172% of average. December precipitation for the Northern Great Basin was 53% of average and 49% of last year. Precipitation since October 1, 1988 is 95% of average and 139% of last year. Streamflows in the Northern Great Basin are expected to be near normal, with a few stations slightly above normal. Bidwell Creek near Fort Bidwell is expected to flow at 92% of normal or 11,000 acre feet during the April-July forecast period.

# NORTHERN GREAT BASIN

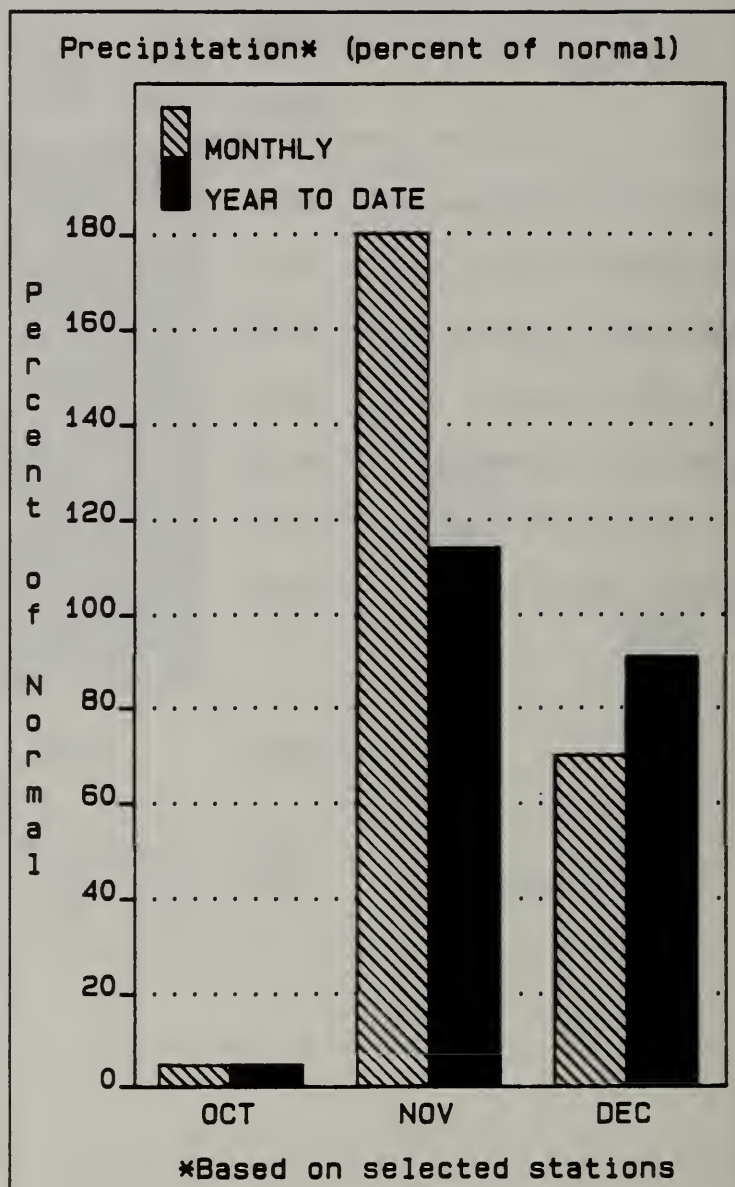
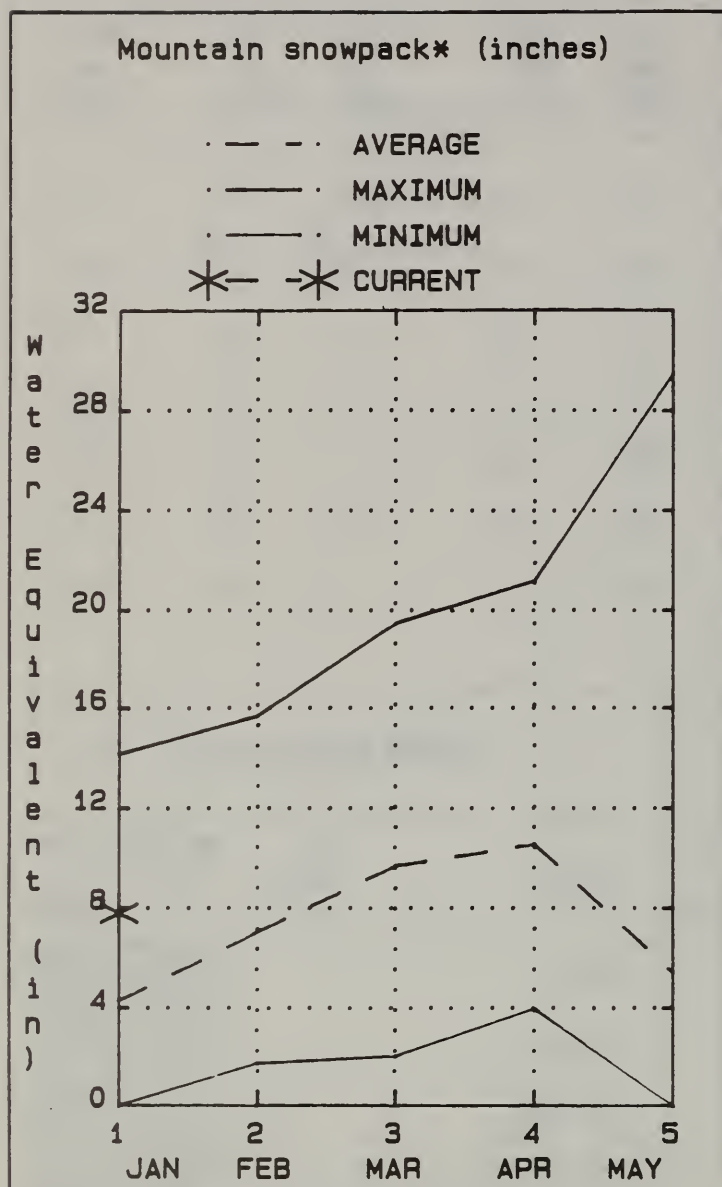
## STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVG.)	WET SUBS. (1000AF)	DRY SUBS. (1000AF)	REAS. MAX. (1000AF)	REAS. MIN. (1000AF)	25 YR. AVG. (1000AF)
BIDWELL CREEK nr Fort Bidwell	APR-JUL	11.0	92	14.5	7.5	20	1.8	12.0
DEEP CREEK nr Cedarville, Ca	APR-JUL	4.0	111	4.5	3.9	6.8	1.2	3.6
EAGLE CREEK nr Eagleville, Ca	APR-JUL	4.5	105	5.4	3.3	7.8	1.2	4.3
MILL CREEK nr Cedarville, Ca	APR-JUL	4.2	102	5.2	3.2	7.4	1.0	4.1
QUINN RIVER nr McDermitt, Nv	APR-JUL	18.0	113	19.8	12.6	29	7.0	16.0
E. FORK QUINN RIVER nr McDermitt	APR-JUL	12.0	115	12.7	11.2	19.2	4.8	10.4
MCDERMITT CREEK nr McDermitt	APR-JUL	16.0	111	17.3	14.4	24	9.4	14.4

RESERVOIR STORAGE (1000AF)					WATERSHED SNOWPACK ANALYSIS		
RESERVOIR	USEABLE : CAPACITY :	** USEABLE STORAGE **			WATERSHED	NO. COURSES AVG'D	THIS YEAR AS % OF LAST YR. AVERAGE
		THIS YEAR	LAST YEAR	AVG.			
					BIDWELL	0	0 0
					MILL CREEK	0	0 0
					DEEP CREEK	0	0 0
					EAGLE CREEK	0	0 0
					QUINN RIVER	0	0 0
					E. FORK QUINN	0	0 0
					MCDERMITT CREEK	0	0 0

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## UPPER HUMBOLDT RIVER BASIN



### UPPER HUMBOLDT RIVER BASIN

Snowpack conditions in the Upper Humboldt River Basin are well above average. The basin currently has 182% of the January 1 average and 180% of the water content present last year. December precipitation for the Upper Humboldt River Basin was 70% of average and 106% of last year. Precipitation since October 1, 1988 is 91% of average and 102% of last year. Streamflows in the Upper Humboldt River Basin are expected to be near to slightly above normal. The Humboldt River at Palisades is expected to flow at 96% of average or 300,000 acre feet during the March-July forecast period and 99% of average or 265,000 acre feet during the April-July forecast period.



# UPPER HUMBOLDT RIVER BASIN

## STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVG.)	WET SUBS. (1000AF)	DRY SUBS. (1000AF)	REAS. MAX. (1000AF)	REAS. MIN. (1000AF)	25 YR. AVG. (1000AF)
HUMBOLDT RIVER at Palisades	APR-JUL	265	99	375	106	515	69	269
S FORK HUMBOLDT RIVER at Dixie	APR-JUL	82	115	95	46	142	22	72
NF HUMBOLDT RIVER at Devils Gate	APR-JUL	35	102	37	27	48	8.6	34
MARY'S RIVER nr Deeth	APR-JUL	27	111	31	18.5	43	11.1	24
LAMOILLE CREEK nr Lamoille	APR-JUL	28	95	32	24	42	13.8	30

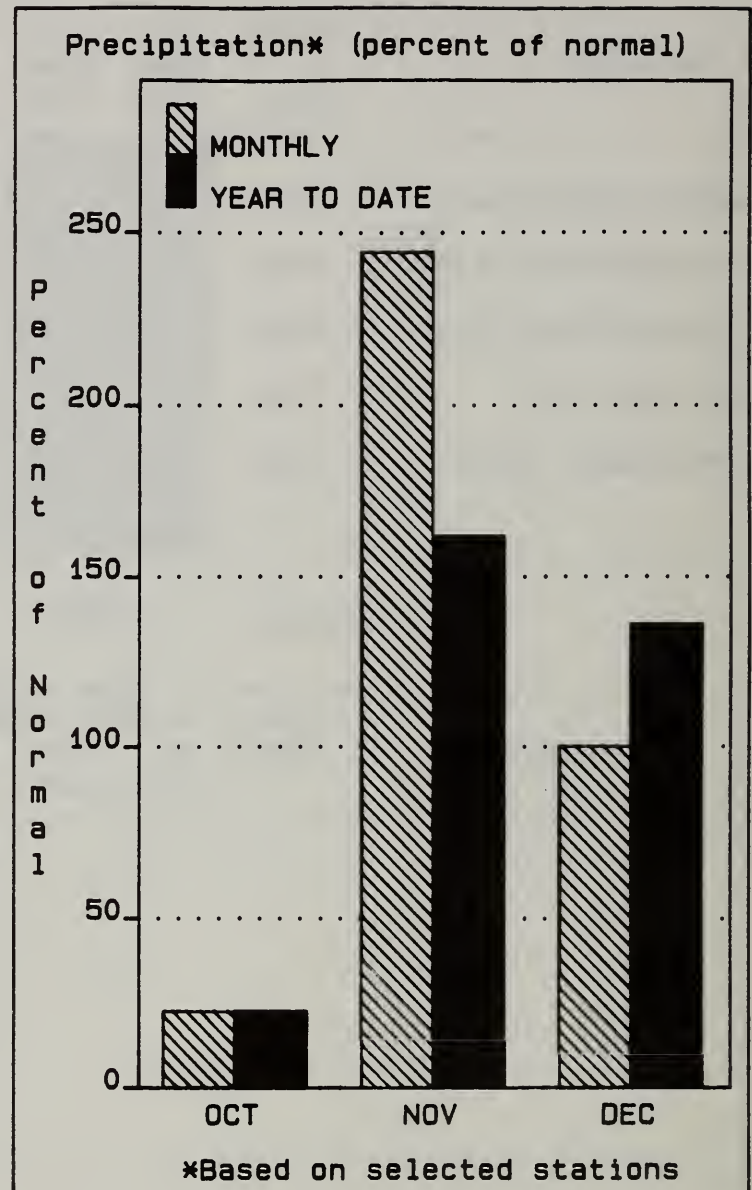
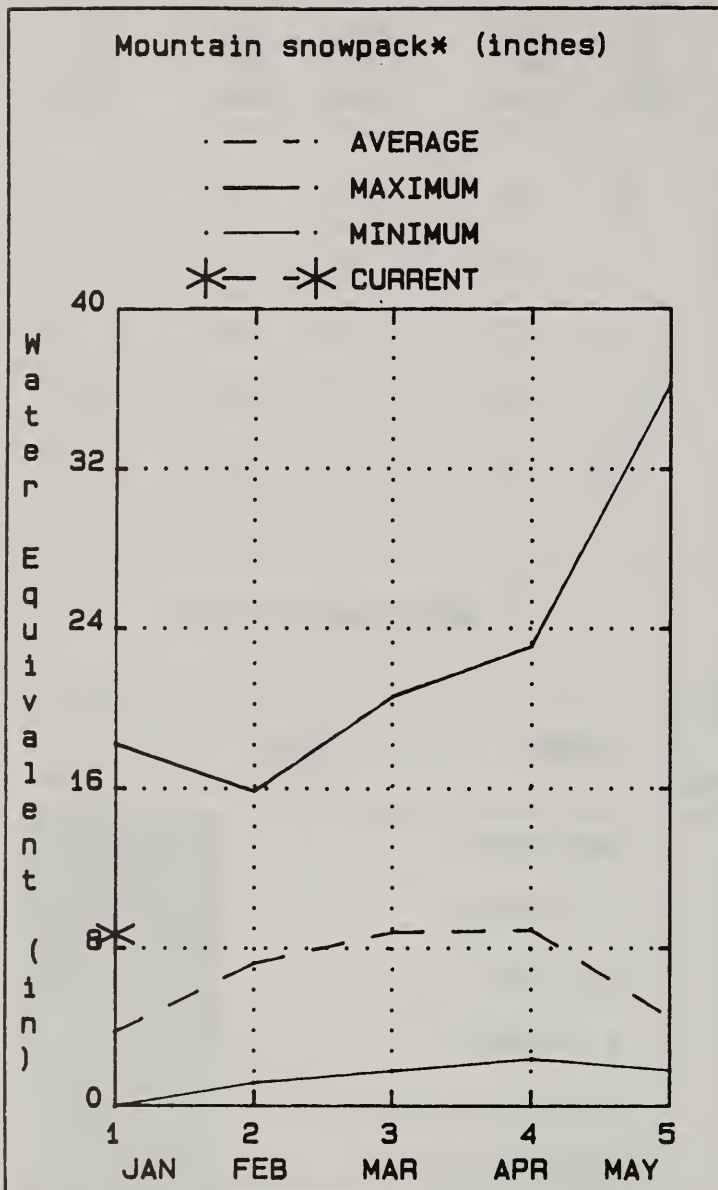
## RESERVOIR STORAGE (1000AF)

## WATERSHED SNOWPACK ANALYSIS

RESERVOIR	USEABLE : CAPACITY :	** USEABLE STORAGE **			WATERSHED	NO. COURSES AVG'D	THIS YEAR AS % OF	
		THIS YEAR	LAST YEAR	AVG.			LAST YR.	AVERAGE
					LAMOILLE CREEK	1	102	120
					S. FORK HUMBOLDT	4	180	182
					MARY'S RIVER	0	0	0
					N. FORK HUMBOLDT	0	0	0
					HUMBOLDT Rv. at Palisades	4	180	182
					HUMBOLDT RIVER at Comus	4	180	182

WET SUBS. and DRY SUBS. represent 130 and 70 percent subsequent precipitation events respectively.  
 REAS. MAX. and REAS. MIN. forecasts are for 10% and 90% exceedance levels with the exception of (1) below.  
 (1) - REAS. MAX. and REAS. MIN. forecasts are for 5% and 95% exceedance levels.  
 (2) - Corrected for upstream diversions or changes in reservoir storage.

## LOWER HUMBOLDT RIVER BASIN



### LOWER HUMBOLDT RIVER BASIN

Snowpack conditions in the Lower Humboldt River Basin are well above average. The basin currently has 227% of the January 1 average and 215% of the water content present last year. December precipitation for the Lower Humboldt River Basin was 100% of average and 105% of last year. Precipitation since October 1, 1988 is 136% of average and 135% of last year. Reservoir storage on the last day of December was 8% of average. Total storage in Rye Patch Reservoir was 8384 acre feet. Streamflows in the Lower Humboldt River Basin are expected to be near to well above average. The Humboldt River at Comus is expected to flow at 94% of average or 215,000 acre feet during the April-July forecast period.

# LOWER HUMBOLDT RIVER BASIN

## STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVG.)	WET SUBS. (1000AF)	DRY SUBS. (1000AF)	REAS. MAX. (1000AF)	REAS. MIN. (1000AF)	25 YR. AVG. (1000AF)
REESE RIVER nr Ione Nv	APR-JUL	7.5	96	8.6	5.6	10.9	2.7	7.8
ROCK CREEK nr Battle Mtn.	APR-JUL	25	114	30	18.2	43	6.5	22
HUMBOLDT RIVER at Comus	APR-JUL	215	94	280	137	365	71	229
L. HUMBOLDT RIVER nr Paradise Valley	APR-JUL	16.0	128	20	11.5	25	7.4	12.5
MARTIN CREEK nr Paradise Nv	APR-JUL	26	137	31	22	39	12.9	19.0

RESERVOIR STORAGE (1000AF)					WATERSHED SNOWPACK ANALYSIS		
RESERVOIR	USEABLE : CAPACITY :	++ USEABLE STORAGE : THIS YEAR	LAST YEAR	++ AVG.	WATERSHED	NO. COURSES AVG'D	THIS YEAR AS % OF LAST YR. AVERAGE
RYE PATCH RESERVOIR	194.3	8.4	58.8	99.0	LITTLE HUMBOLDT RIVER	2	273 191
					MARTIN CREEK	3	261 167
					REESE RIVER	2	68 249
					ROCK CREEK	2	296 223

WET SUBS. and DRY SUBS. represent 130 and 70 percent subsequent precipitation events respectively.

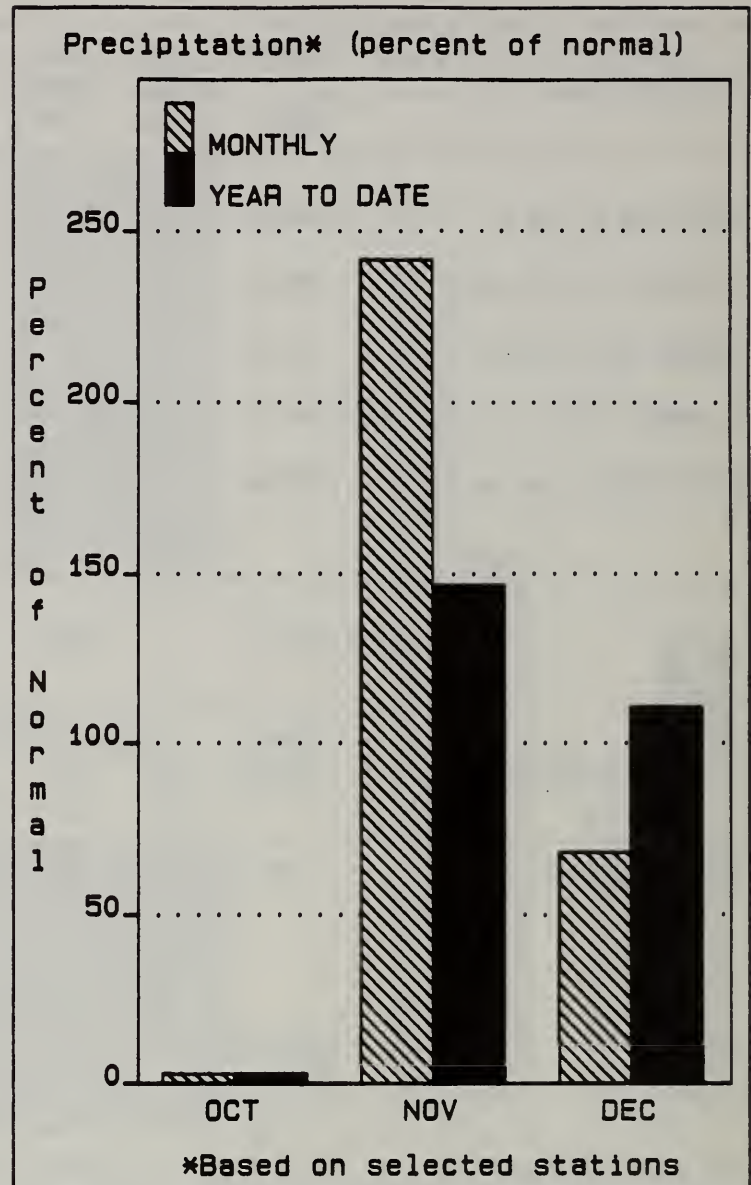
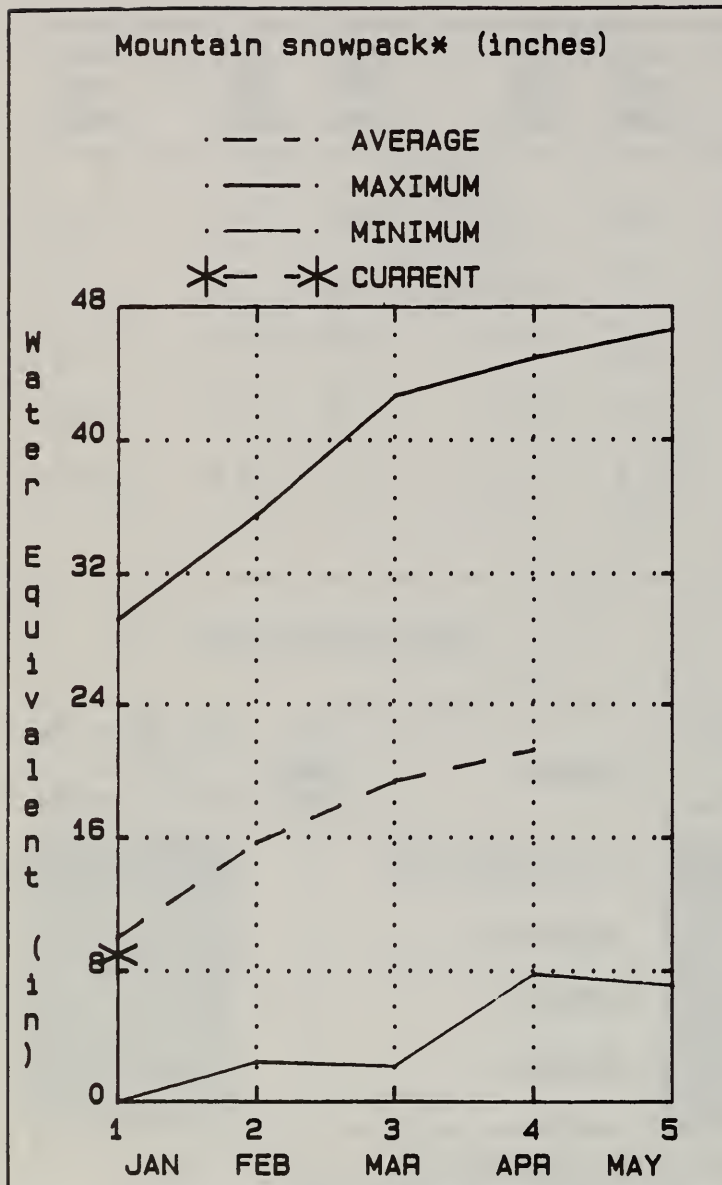
REAS. MAX. and REAS. MIN. forecasts are for 10% and 90% exceedance levels with the exception of (1) below.

(1) - REAS. MAX. and REAS. MIN. forecasts are for 5% and 95% exceedance levels.

(2) - Corrected for upstream diversions or changes in reservoir storage.



## CLOVER VALLEY & FRANKLIN RIVER BASIN



### CLOVER VALLEY & FRANKLIN RIVER BASIN

Snowpack conditions in the Clover Valley & Franklin River Basin, based on SNOTEL (SNOW TELelemetry) readings, are near average. The basin currently has 90% of the January 1 average and 150% of the water content present last year. December precipitation for the Clover Valley & Franklin River Basin was 68% of average and 75% of last year. Precipitation since October 1, 1988 is 111% of average and 114% of last year. Streamflows in the Clover Valley & Franklin River Basin are expected to be near average. The Franklin River nr Arthur is expected to flow at 101% of average or 7000 acre feet during the April-July forecast period.

# CLOVER VALLEY & FRANKLIN RIVER BASIN

## STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVG.)	WET SUBS. (1000AF)	DRY SUBS. (1000AF)	REAS. MAX. (1000AF)	REAS. MIN. (1000AF)	25 YR. AVG. (1000AF)
FRANKLIN RIVER nr Arthur	APR-JUL	7.0	101	8.2	5.6	11.3	2.8	6.9

RESERVOIR STORAGE (1000AF)					WATERSHED SNOWPACK ANALYSIS		
RESERVOIR	USEABLE : CAPACITY :	++ USEABLE STORAGE ++ THIS YEAR	LAST YEAR	AVG.	WATERSHED	NO. COURSES AVG'D	THIS YEAR AS % OF LAST YR. AVERAGE
					FRANKLIN RIVER	0	0 0
					CLOVER VALLEY	0	0 0

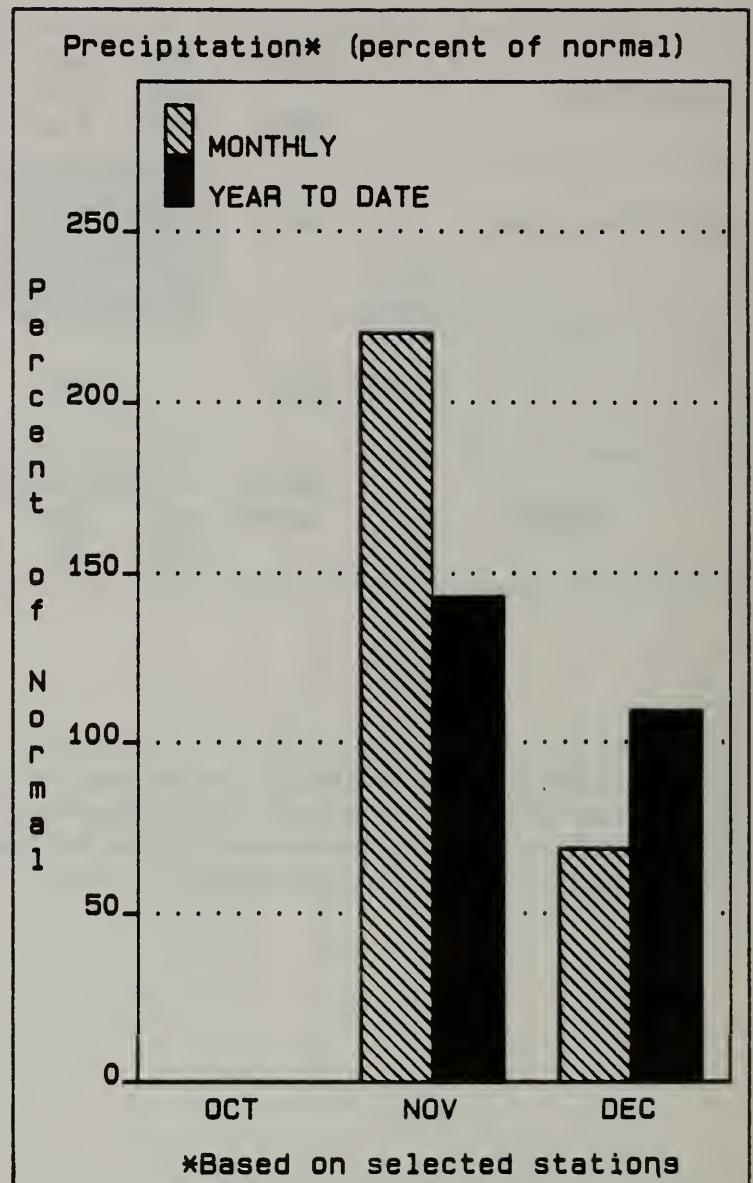
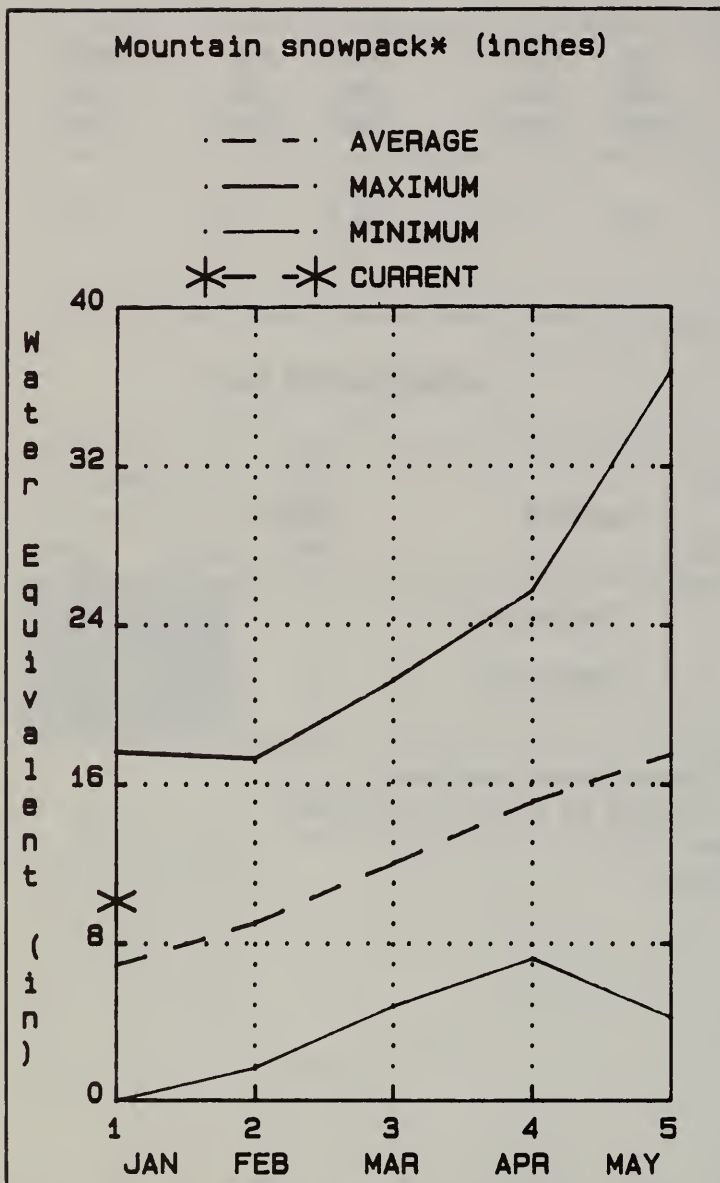
WET SUBS. and DRY SUBS. represent 130 and 70 percent subsequent precipitation events respectively.

REAS. MAX. and REAS. MIN. forecasts are for 10% and 90% exceedance levels with the exception of (1) below.

(1) - REAS. MAX. and REAS. MIN. forecasts are for 5% and 95% exceedance levels.

(2) - Corrected for upstream diversions or changes in reservoir storage.

## SNAKE RIVER BASIN



### SNAKE RIVER BASIN

Snowpack conditions in the Snake River Basin are well above average. The basin currently has 146% of the January 1 average and 161% of the water content present last year. December precipitation for the Snake River Basin was 69% of average and 121% of last year. Precipitation since October 1, 1988 is 109% of average and 148% of last year. Streamflows in the Snake River Basin are expected to be above average. Salmon Falls Creek near San Jacinto is expected to flow at 115% of average or 112,000 acre feet during the March-July forecast period.



# SNAKE RIVER BASIN

## STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVG.)	WET SUBS. (1000AF)	DRY SUBS. (1000AF)	REAS. MAX. (1000AF)	REAS. MIN. (1000AF)	25 YR. AVG. (1000AF)
SALMON FALLS CK nr San Jacinto	MAR-JUL	112	115	140	83	149	73	97

RESERVOIR STORAGE (1000AF)				WATERSHED SNOWPACK ANALYSIS		
RESERVOIR	USEABLE : CAPACITY: : YEAR	** USEABLE STORAGE ** THIS YEAR	LAST YEAR	WATERSHED	NO. COURSES AVG'D	THIS YEAR AS % OF LAST YR. AVERAGE
			AVG.	SALMON FALLS CREEK	4	168 145

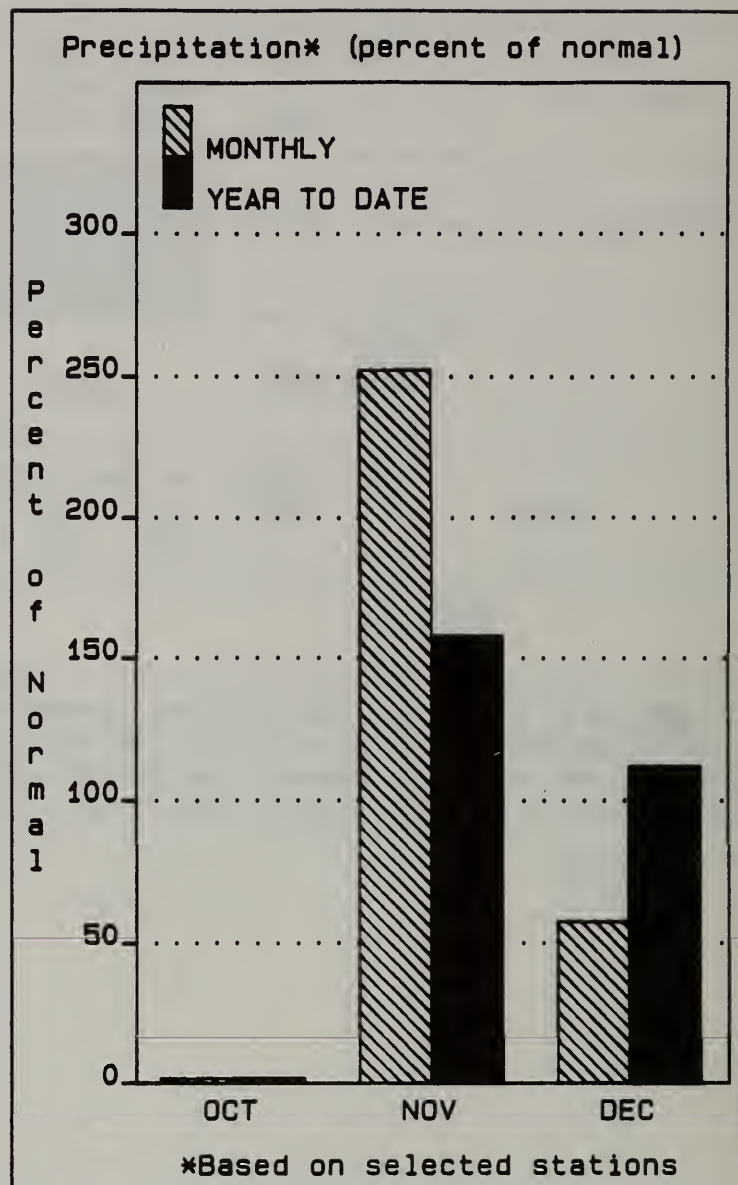
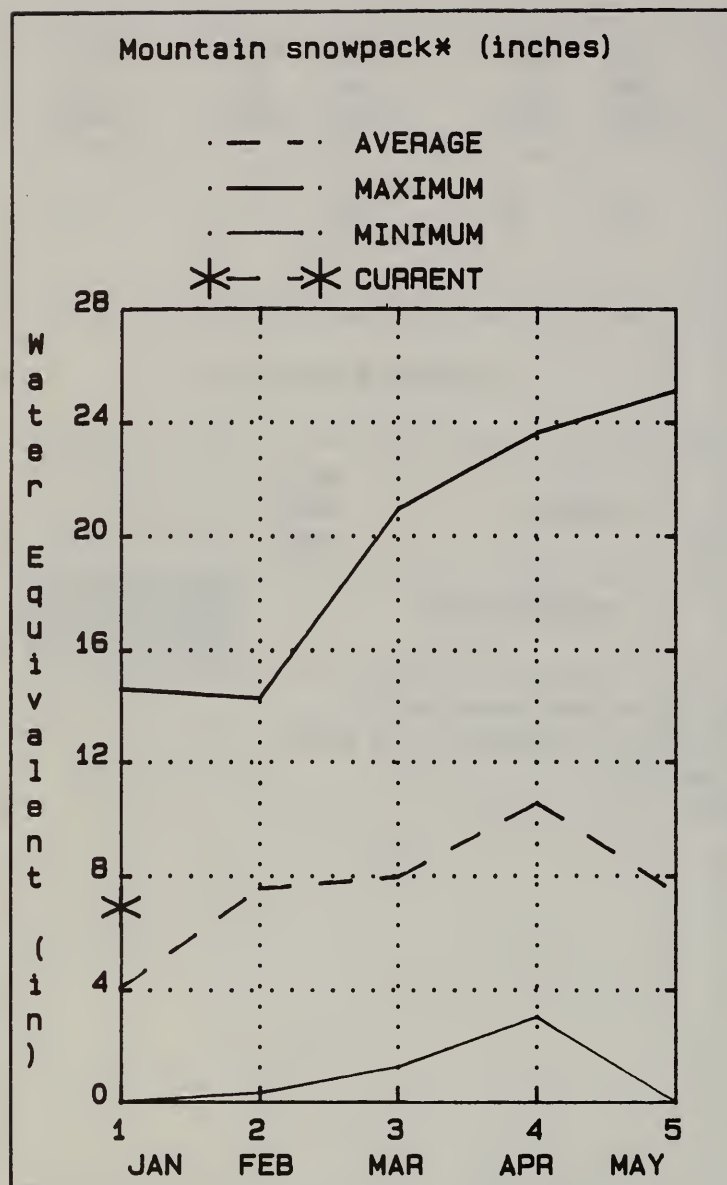
WET SUBS. and DRY SUBS. represent 130 and 70 percent subsequent precipitation events respectively.

REAS. MAX. and REAS. MIN. forecasts are for 10% and 90% exceedance levels with the exception of (1) below.

(1) - REAS. MAX. and REAS. MIN. forecasts are for 5% and 95% exceedance levels.

(2) - Corrected for upstream diversions or changes in reservoir storage.

## OWYHEE RIVER BASIN



### OWYHEE RIVER BASIN

Snowpack conditions in the Owyhee River Basin are well above average. The basin currently has 168% of the January 1 average and 213% of the water content present last year. December precipitation for the Owyhee River Basin was 57% of average and 86% of last year. Precipitation since October 1, 1988 is 112% of average 147% of last year. Reservoir storage on the last day of December was 45% of average. Total storage for Wildhorse Reservoir was 11,490 acre feet. Streamflows in the Owyhee River Basin are expected to be near to above average. The Owyhee River near Owyhee is expected to flow at 116% of average or 100,000 acre feet during the April-July forecast period.

# OWYHEE RIVER BASIN

## STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVG.)	WET SUBS. (1000AF)	DRY SUBS. (1000AF)	REAS. MAX. (1000AF)	REAS. MIN. (1000AF)	25 YR. AVG. (1000AF)
OWYHEE nr Gold Ck (2)	MAR-JUL	40	121			58	21	33
OWYHEE nr Owyhee (2)	APR-JUL	100	116	137	63	163	37	86
SF OWYHEE nr White Rock	APR-JUL	99	119	149	48	160	38	83

RESERVOIR STORAGE (1000AF)					WATERSHED SNOWPACK ANALYSIS		
RESERVOIR	USEABLE : CAPACITY :	** USEABLE STORAGE ** THIS YEAR	LAST YEAR	AVG.	WATERSHED	NO. COURSES AVG'D	THIS YEAR AS % OF LAST YR. AVERAGE
WILDHORSE RESERVOIR	71.5	11.5	19.2	25.6	OWYHEE RIVER nr Owyhee	5	188 161
					OWYHEE Rv. nr Gold Creek	1	188 136
					S. FORK OWYHEE RIVER	5	188 161

WET SUBS. and DRY SUBS. represent 130 and 70 percent subsequent precipitation events respectively.

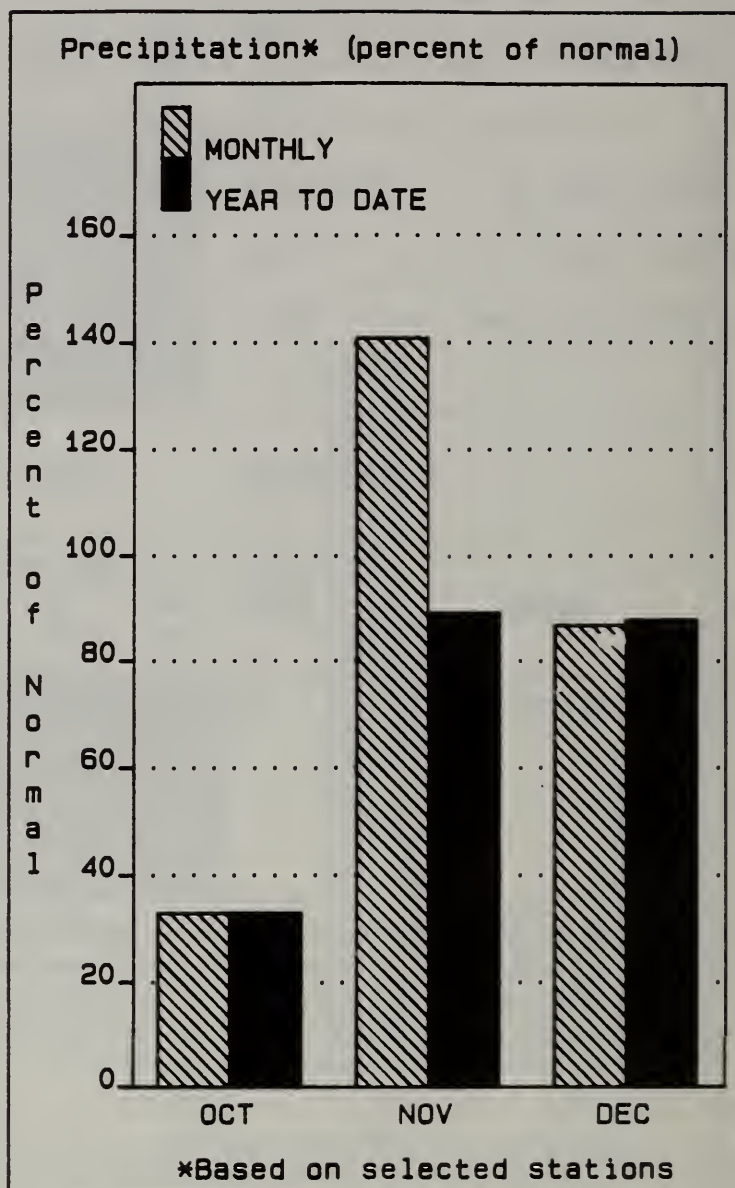
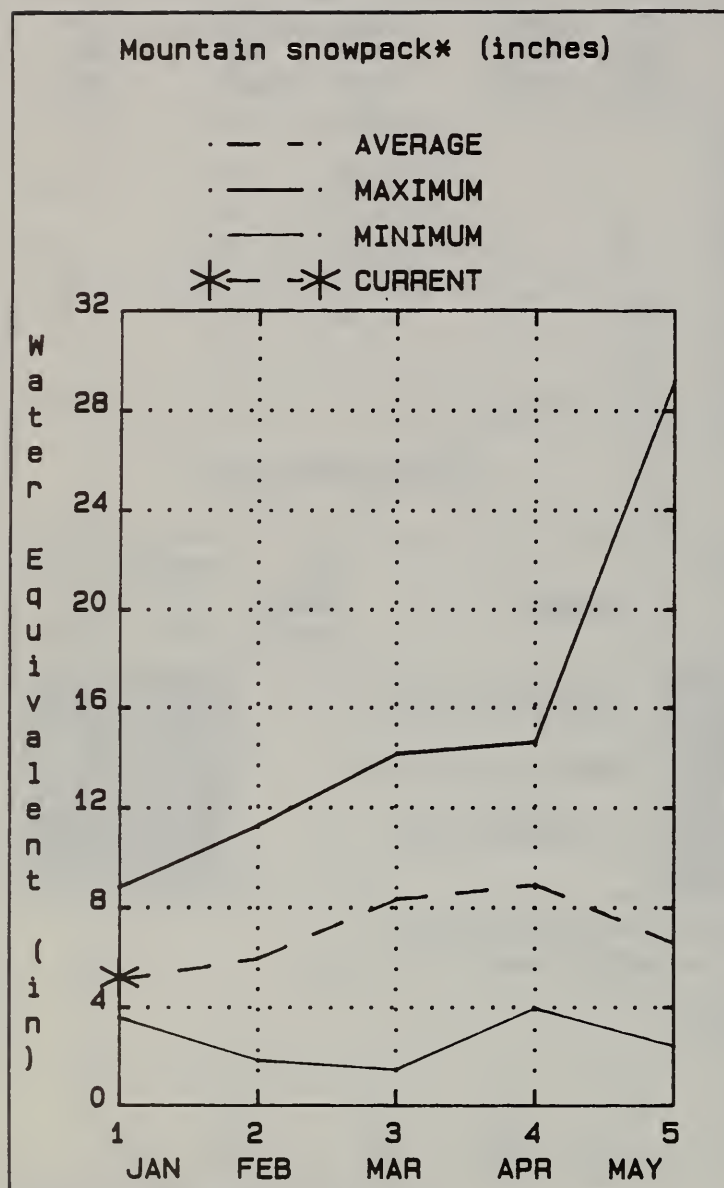
REAS. MAX. and REAS. MIN. forecasts are for 10% and 90% exceedance levels with the exception of (1) below.

(1) - REAS. MAX. and REAS. MIN. forecasts are for 5% and 95% exceedance levels.

(2) - Corrected for upstream diversions or changes in reservoir storage.



## EASTERN NEVADA



## EASTERN NEVADA

Snowpack conditions in the Eastern Nevada Basin, based on SNOTEL (SNOW TELEmetry) readings, are near average. The basin currently has 103% of the January 1 average and 112% of the water content present last year. December precipitation for the Eastern Nevada Basin was 87% of average and 146% of last year. Precipitation since October 1, 1988 is 88% of average and 72% of last year. Streamflows in the Eastern Nevada Basin are expected to be near to above average. Steptoe Creek near Ely is expected to flow at 125% of average or 4000 acre feet during the April-July forecast period.

# EASTERN NEVADA

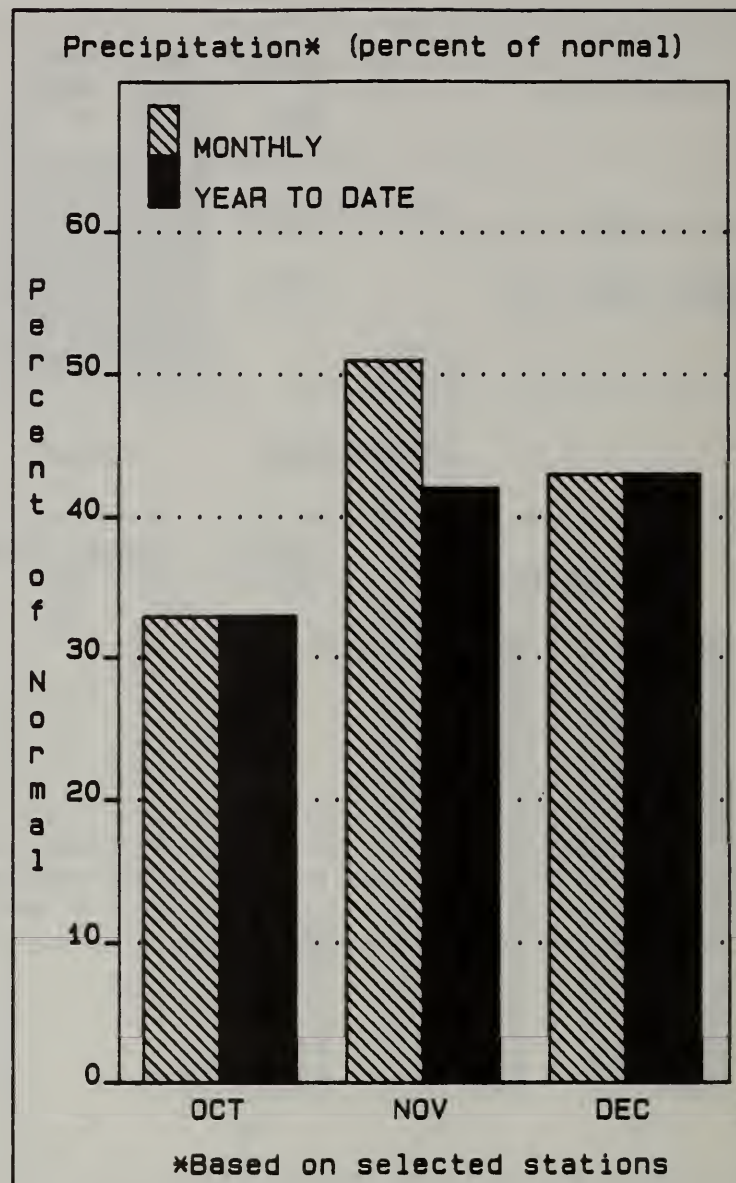
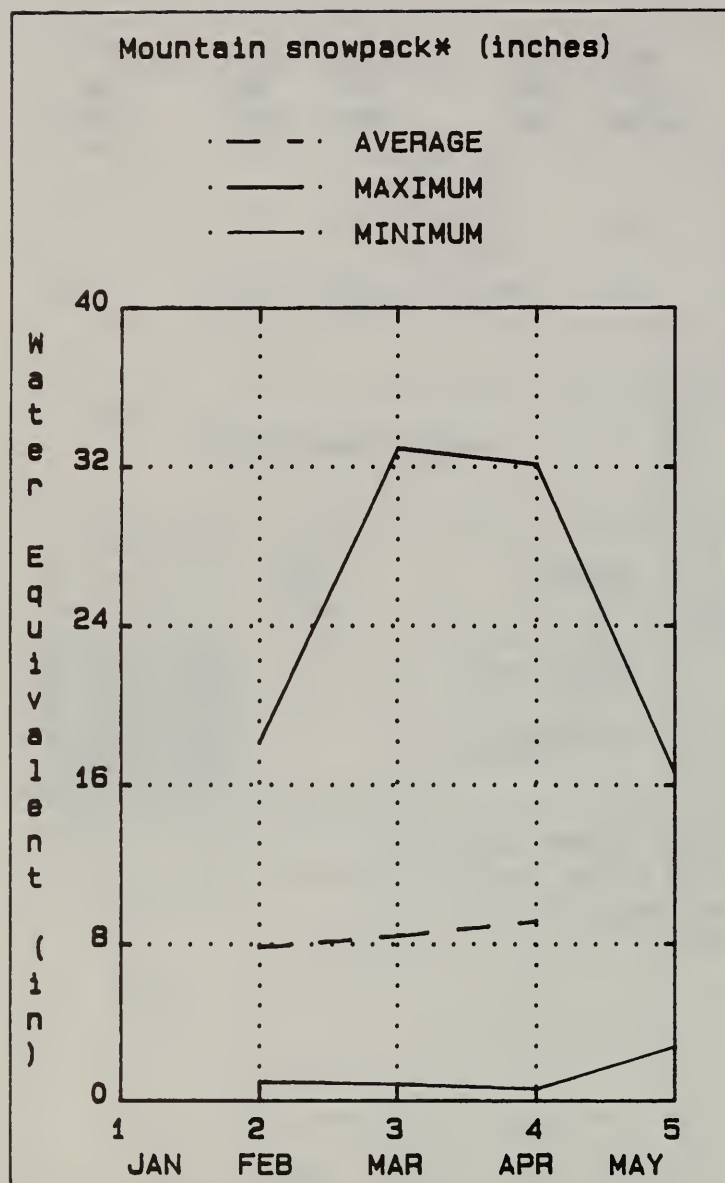
## STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVG.)	WET SUBS. (1000AF)	DRY SUBS. (1000AF)	REAS. MAX. (1000AF)	REAS. MIN. (1000AF)	25 YR. AVG. (1000AF)
KINGSTON CREEK nr Austin, Nv	APR-JUL	4.0	95	4.5	3.5	6.9	1.7	4.2
STEPTOE CREEK nr Ely	APR-JUL	4.0	125	4.8	3.0	5.8	2.1	3.2

RESERVOIR STORAGE (1000AF)					WATERSHED SNOWPACK ANALYSIS		
RESERVOIR	USEABLE : CAPACITY:	++ USEABLE STORAGE ++ THIS LAST : YEAR YEAR AVG.			WATERSHED	NO. COURSES AVG'D	THIS YEAR AS % OF LAST YR. AVERAGE
					KINGSTON CREEK	0	0 0
					STEPTOE VALLEY	0	0 0

WET SUBS. and DRY SUBS. represent 130 and 70 percent subsequent precipitation events respectively.  
 REAS. MAX. and REAS. MIN. forecasts are for 10% and 90% exceedance levels with the exception of (1) below.  
 (1) - REAS. MAX. and REAS. MIN. forecasts are for 5% and 95% exceedance levels.  
 (2) - Corrected for upstream diversions or changes in reservoir storage.

## LOWER COLORADO RIVER BASIN



### LOWER COLORADO RIVER BASIN

Snowpack conditions in the Virgin River Watershed are below average. The watershed currently has 79% of the January 1 average and 67% of the water content present last year. December precipitation for the Lower Colorado River Basin was 43% of average and 47% of last year. Precipitation since October 1, 1988 is 43% of average and 19% of last year. Reservoir storage on the last day of December was 119% of average. Total storage for Lake Mohave and Lake Mead was 24,473,900 acre feet. Streamflows in the Lower Colorado River Basin are expected to be below to well below average. The Colorado River inflow to Lake Powell is expected to be 87% of average or 7,000,000 acre feet during the April-July forecast period.



# LOWER COLORADO RIVER BASIN

## STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVG.)	WET SUBS. (1000AF)	DRY SUBS. (1000AF)	REAS. MAX. (1000AF)	REAS. MIN. (1000AF)	25 YR. AVG. (1000AF)
COLORADO RIVER inf to Lake Powell 2	APR-JUL	7000	87	9750	4250	10800	3850	8086
VIRGIN near Hurricane	APR-JUN	50	74			86	20	68
VIRGIN RIVER near Littlefield	APR-JUN	40	60			80	16.6	67

RESERVOIR STORAGE (1000AF)					WATERSHED SNOWPACK ANALYSIS			
RESERVOIR	USEABLE : CAPACITY:	** USEABLE STORAGE **			WATERSHED	NO. COURSES AVG'D	THIS YEAR AS % OF LAST YR. AVERAGE	
		THIS YEAR	LAST YEAR	AVG.				
LAKE MOHAVE	1810.0	1593.9	1496.4	---	VIRGIN Rv. at Littlefield	4	67	79
LAKE MEAD	26159.0	22880.0	24553.0	19301.0	VIRGIN Rv. at Hurricane,	4	67	79

WET SUBS. and DRY SUBS. represent 130 and 70 percent subsequent precipitation events respectively.  
 REAS. MAX. and REAS. MIN. forecasts are for 10% and 90% exceedance levels with the exception of (1) below.  
 (1) - REAS. MAX. and REAS. MIN. forecasts are for 5% and 95% exceedance levels.  
 (2) - Corrected for upstream diversions or changes in reservoir storage.

# SNOW DATA MEASUREMENTS

SNOW COURSE	ELEVATION	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 1961-85
-----						
LAKE TAHOE BASIN						
ECHO PEAK (CA)	7800	1/01/89	---	18.0E	9.2	16.6
ECHO SUMMIT (CA)	7450	12/29/88	59	13.8	8.4	12.5
FALLEN LEAF (CA)	6300	1/01/89	---	5.5E	2.4	3.6
FREEL BENCH (CA)	7300	1/01/89	---	6.4E	1.6	5.5
GLENBROOK #2	6900	1/01/89	---	5.1E	3.1	4.4
HAGANS MEADOW (CA)	8000	1/01/89	---	10.1E	3.4	7.6
HEAVENLY VALLEY (CA)	8850	1/01/89	---	12.0E	8.6	11.0
MARLETTE LAKE	8000	1/01/89	---	10.7E	3.9	9.3
TAHOE CITY CROSS (CA)	6750	1/02/89	38	10.6	4.2	6.6
WARD CREEK #2 (CA)	7000	1/01/89	---	18.8E	9.7	15.4
WARD CREEK #3 (CA)	6750	1/01/89	---	15.2E	9.3	13.0
TRUCKEE RIVER BASIN						
CASTLE CREEK (CA)	7400	12/31/88	78	22.6	18.9	22.3
DONNER SUMMIT (CA)	6900	1/04/89	60	19.1	19.0	14.6
FORDYCE LAKE (CA)	6500	1/03/89	64	20.0	14.0	16.2
FURNACE FLAT (CA)	6700	1/03/89	73	23.1	15.7	19.6
INDEPENDENCE CAMP CA	7000	1/01/89	---	9.4E	5.7	7.5
INDEPENDENCE CREEK	6500	1/01/89	---	8.6E	3.4	5.1
INDEPENDENCE LAKE CA	8450	1/01/89	---	17.7E	11.7	15.5
MT. ROSE	9000	1/01/89	---	14.7E	7.5	12.7
MT. ROSE SKI AREA	9000	1/01/89	---	22.5E	11.1	18.7
SQUAW VALLEY #2 (CA)	7500	1/01/89	---	22.6E	16.7	18.1
SQUAW VALLEY G.C., CA	8200	1/01/89	---	27.5S	15.9	23.5
TAHOE CITY CROSS (CA)	6750	1/02/89	38	10.6	4.2	6.6
TRUCKEE #2 (CA)	6400	1/02/89	32	7.5	4.2	5.6
WEBBER LAKE (CA)	7000	1/03/89	57	17.8	--	--
WEBBER PEAK (CA)	8000	1/03/89	67	22.3	--	--
CARSON RIVER BASIN						
BLUE LAKES (CA)	8000	1/01/89	---	14.2E	11.8	14.4
EBBETTS PASS #2 (CA)	8700	1/01/89	---	15.7E	10.2	16.2
POISON FLAT #2 (CA)	7900	1/01/89	---	11.2E	5.2	6.4
WET MEADOWS #2 (CA)	8100	1/01/89	---	16.4E	11.6	13.1

# SNOW DATA MEASUREMENTS (CONT)

SNOW COURSE	ELEVATION	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 1961-85
-----						
WALKER RIVER BASIN						
LEAVITT MEADOWS (CA)	7200	1/01/89	---	5.3E	3.7	2.8
LOBDELL LAKE (CA)	9200	1/01/89	---	7.4E	3.5	7.0
VIRGINIA LAKES (CA)	9500	1/01/89	---	8.2E	3.7	6.5
VIRGINIA LAKES RIDGE	9200	1/01/89	---	8.1E	4.3	7.7
SNAKE RIVER BASIN						
BEAR CREEK	7800	12/30/88	---	12.6E	6.5	8.9
GOAT CREEK	8800	12/30/88	---	11.6E	6.9	7.4
HUMMINGBIRD SPRINGS	8950	12/30/88	---	15.9E	11.2	10.3
POLE CREEK R.S.	8330	12/30/88	---	12.9E	8.9	8.6
SEVENTYSIX CREEK	7100	1/01/89	---	8.1E	4.6	6.3
STAG MOUNTAIN AM	7700	1/01/89	---	3.0E	1.6	2.3
OWYHEE RIVER BASIN						
BIG BEND	6700	1/01/89	---	5.3E	2.8	3.9
FAWN CREEK AM	7050	1/01/89	---	11.9E	--	5.3
GOLD CREEK	6600	1/01/89	---	3.2E	1.9	2.5
JACK CREEK, LOWER	6800	1/01/89	---	6.1E	3.0	1.1
JACK CREEK, UPPER	7250	1/01/89	---	6.1E	4.2	2.9
JACKS PEAK	8420	1/01/89	---	15.0E	6.5	9.2
LAUREL DRAW	6700	1/01/89	---	6.9E	3.2	3.7
TAYLOR CANYON	6200	1/01/89	---	2.4E	2.3	2.5
UPPER HUMBOLDT RIVER BASIN						
CORRAL CANYON	8500	1/01/89	---	10.3E	.0	4.7
DORSEY BASIN	8100	1/01/89	---	9.6E	6.5	4.5
GREEN MOUNTAIN	8000	1/01/89	---	9.8E	7.1	5.2
LAMOILLE #3	7700	1/01/89	---	6.7E	6.6	5.6
SMITH CREEK	7700	1/01/89	---	9.7E	7.5	--
LOWER HUMBOLDT RIVER BASIN						
BIG CREEK MINE	7600	1/01/89	---	3.4E	5.1	2.1
BIG CREEK SUMMIT	8700	1/01/89	---	10.6S	--	5.3
BIG CREEK, UPPER	7800	1/01/89	---	6.8E	10.0	2.0
GRANITE PEAK	7800	1/01/89	---	12.7E	5.6	8.2
LAMANCE CREEK	6000	1/01/89	---	9.7E	2.6	3.5
MARTIN CREEK	6700	1/01/89	---	6.6E	2.9	3.8



# SNOW DATA MEASUREMENTS (CONT)

SNOW COURSE	ELEVATION	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 1961-85
-----						
CLOVER VALLEY & FRANKLIN RIVER BASIN						
POLE CANYON #2	7700	1/01/89	---	10.8E	--	--

# SNOW CORE MEASUREMENTS - DRI-ASC

1 January 1989

DATE JAN.	SITE	ELEVATION FEET	LOCATION	SNOW IN.	WATER IN.	DENSITY	% OF NORMAL 1967-87
3	JC	5800	Clear Creek	12	2.7	0.22	
3	SS	7260	Spooner Summit	32	7.8	0.24	
3	FT	5250	Cliff Ranch, Franktown	17.5	3.5	.20	
3	LV	6540	Little Valley	25.0	6.5	.26	
3	DC	5160	Davis Creek	14.0	2.8	.20	
1	8	4590	Jct. 395 & NV 27	6.0	0.9	.15	
1	6	5110	Lancer	9.0	1.5	.17	
1	4	5670	Whites Creek	11.0	3.4	.31	
1	R	5700	Evergreen Hills Rd.	19.0	3.5	.18	
1	2	6000	Jones Creek	19.0	3.7	.20	
1	0	6400	RNR Forestry Site	27.0	5.5	.29	128
1	N	7060	Reindeer Lodge	36.0	8.9	.25	117
1	M	7440	Galena Creek	51.0	12.2	.24	151
1	K	7620	Sky Tavern	39.0	9.8	.25	117
1	G	8280	Mt. Rose Resort	59.0	16.2	.27	111
1	D	8820	Tamarack Lake	63.0	18.4	.29	117
1	A	8540	Tahoe Meadows	71.5	20.8	.29	123
1	U	8000	Below Incline Lake	41.0	10.9	.27	107
1	V	7300	Apollo Way	35.0	9.2	.26	128
1	Z	6235	Third & Incline Creeks	22.0	4.8	.22	
2	BS	7200	Brockway Summit	44.5	11.7	.26	
2	NS	6320	North Star Fire Dept.	29.0	6.9	.24	
2	TRK	5900	Truckee - Tahoe Airport	22.0	5.5	.25	
2	CK	6540	Cabin Creek	41.0	10.2	.25	
2	SV	6240	Squaw Valley Fire Dept.	40.0	11.3	.28	
2	TC	6200	Thunder Cliff	39.0	10.4	.27	
2	TP	6240	Tahoe City	32.0	8.3	.26	
3	BF	6200	Bennett Flat	35.0	10.2	.29	
3	AC	6960	Alder Creek	58.0	17.7	.31	
3	HM	5850	Hobart Mills	29.0	7.8	.27	
2	SA	6340	Sagehen Creek	35.0	8.7	.25	
3	LT	6410	Henness Pass Jct.	30.0	8.2	.27	
	FL	6200	Fuller Lake				
	JL	6000	Joy Lake				

# FOR MORE INFORMATION, CONTACT YOUR LOCAL SOIL CONSERVATION SERVICE OFFICE

## BATTLE MOUNTAIN FIELD OFFICE

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Rafael J. Guerrero  
125 Carson Road, 153-9  
Battle Mountain, NV 89820  
(702) 635-2650

## ELKO FIELD OFFICE

-----

Leland R. Campsey  
2002 Idaho  
Elko, NV 89801  
(702) 738-8431

## EUREKA FIELD OFFICE

-----

Shelley S. Tucker  
Sentinel Building  
P.O. Box 323  
Eureka, NV 89316  
(702) 237-5251

## LAS VEGAS FIELD OFFICE

-----

James R. Ayres  
1140 Almond Tree Lane  
Suite 310  
Las Vegas, NV 89104  
(702) 388-6426 or 388-6427

## MINDEN FIELD OFFICE

-----

Steve K. Walker  
1694 County Road  
P.O. Box 517  
Minden, NV 89423  
(702) 782-3661 (Carson Valley)  
(702) 883-2623 (Carson City/Reno)

## CALIENTE FIELD OFFICE

-----

Richard A. Orr  
360 Lincoln Street  
P.O. Box 8  
Caliente, NV 89008  
(702) 726-3101

## ELY FIELD OFFICE

-----

A. Wayne Imgard  
1190 Avenue E  
Ely, NV 89301  
(702) 289-4065

## FALLON FIELD OFFICE

-----

Peggy A. Hughes  
111 Sheckler Road  
Fallon, NV 89406  
(702) 423-5124

## LOVELOCK FIELD OFFICE

-----

Melvin D. Cheney  
City of Lovelock Building  
400 14th Street  
P.O. Box 860  
Lovelock, NV 89419  
(702) 273-2134

## RENO FIELD OFFICE

-----

John R. Capurro  
1281 Terminal Way  
Suite 204  
Reno, NV 89502  
(702) 784-5408



# FOR MORE INFORMATION, CONTACT YOUR LOCAL SOIL CONSERVATION SERVICE OFFICE

## TONOPAH FIELD OFFICE

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Paul T. Ragland  
P.O. Box 1147  
Tonopah, NV 89049  
(702) 482-5506

## YERINGTON FIELD OFFICE

---

William G. Duckworth  
215 West Bridge Street  
Suite 11-A  
Yerington, NV 89447  
(702) 463-2665

## SOUTH LAKE TAHOE FIELD OFFICE

---

Richard C. Pyle  
870 Highway 89  
Suite 209  
P.O. Box 10529  
South Lake Tahoe, CA 95731  
(916) 541-1496

## WINNEMUCCA FIELD OFFICE

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Walter T. Lamb  
1200 Winnemucca Blvd., East  
Winnemucca, NV 89445  
(702) 623-5025

## CEDARVILLE FIELD OFFICE

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Thomas S. Hill  
P.O. Box 777  
USDA Building  
Wallace Street  
Cedarville, CA 96104  
(916) 279-6110



# The Following Organizations Cooperate With The Soil Conservation Service In Snow Survey Work

## **STATE**

California Cooperative Snow Surveys  
California Department of Parks and Recreation  
California Department of Water Resources  
Colorado River Commission of Nevada  
Idaho Cooperative Snow Surveys  
Nevada Association of Conservation Districts  
Nevada Department of Conservation & Natural Resources  
    Division of Water Resources  
    Nevada State Forester  
    Division of Conservation Districts  
Oregon Cooperative Snow Surveys  
University of Nevada, Desert Research Institute  
Utah Cooperative Snow Surveys

## **FEDERAL**

Bureau of Reclamation  
Forest Service  
Geological Survey  
Soil Conservation Service  
U.S. District Court - Federal Water Master  
NOAA, National Weather Service

## **PRIVATE**

Nevada Irrigation District  
Owyhee Project North Board of Control  
Owyhee Project South Board of Control  
Pacific Gas and Electric Company  
Pershing County Water Conservation District  
Sierra Pacific Power Company  
Truckee - Carson Irrigation District  
Walker River Irrigation District  
Washoe County Water Conservancy District

Other organizations and individuals furnish valuable information for the snow survey reports. Their cooperation is gratefully acknowledged.



UNITED STATES DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE  
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